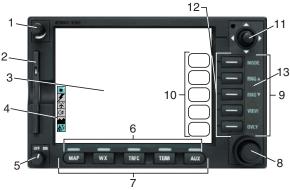
BENDIX/KING®

KMD 550/850 Multi-Function Display Quick Reference

For Software Version 02/02 and Later



- 1. Brightness Control
- 2. Data Card
- 3. Display
- 4. Available Functions Legend
- 5. On/Off Control
- 6. Selected Function Indicators
- 7. Function Select Keys

- 8. Control Knobs (Inner and Outer Knob)
- 9. Power Labels
- 10. Soft Labels
- 11. Joystick
- 12. Power Keys
- 13. Fault Indicator

FUNCTION SELECT KEYS



AVAILABLE FUNCTIONS ICONS

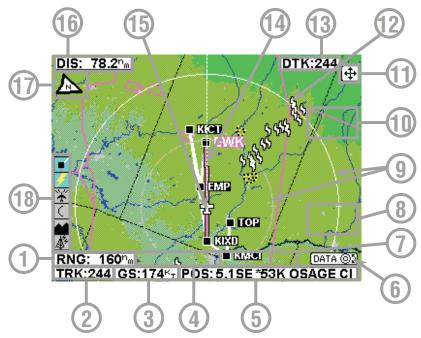
Icon	Description
-	Flight plan information being received and displayed.
F	Flight plan information being received but not displayed.
4	$Stormscope^{ ext{ iny }}$ info being received and displayed.
25	Stormscope [®] info being received and displayed. Strikes have occurred within 25 nm.
#	Stormscope [®] info being received but not displayed.
1 25	Stormscope [®] info being received but not displayed. Strikes have occurred within 25 nm.
Ø	$Stormscope^{ ext{@}}$ info not being received / data invalid.
	Standby weather radar being displayed.
(₹	Active weather radar being displayed.
(Weather radar in standby mode, not being displayed.
(₹	Weather radar in active mode, not being displayed.
0	Weather radar data invalid / not being received. Previously in standby.
Œ	Weather radar data invalid / not being received. Previously active.
*	Standby traffic sensor being displayed.
*	Active traffic information being displayed.
*	Traffic sensor in standby mode, not being displayed.
<u>ታ</u>	TIS service not available.
*	Traffic sensor active, not being displayed.
\odot	Traffic sensor data invalid / not being displayed.
~	EGPWS with warnings are enabled, being displayed.
₽	EGPWS with warnings are disabled, being displayed.
	EGPWS with warnings are enabled, not being displayed.
	EGPWS with warnings are disabled, not being displayed.
\otimes	EGPWS data invalid / not being received.
5	Severe Weather Storm track information being received and displayed.
	Severe Weather Storm track information being received but not displayed.
	Severe Weather Storm track information not being received / data invalid.

VDL	XM	Description				
♠	Ÿ.	No Wx data is currently being received but previously received data is being displayed.				
$\Phi_{\widetilde{z}}$	γ_{i}	Wx data is currently being received from a signal and displayed. XM signal is weak.				
\$ ₹	YII.	Wx data is currently being received from a signal and displayed. XM signal is marginal.				
\$ ² 5	Y 11	Wx data is currently being received from a signal and displayed. XM signal is good.				
A	Ÿ	Wx data not being received nor displayed on present page.				
★ ² / ₂ /	XII	Wx data is currently being received from a signal but not displayed on present page.				
	∞	Fault with connection or data link radio.				
ቆ■	71	Graphical METAR overlay is available but not displayed.				
₽□	711 8	Graphical METAR overlay is enabled and displayed.				
4	Y 🔳	Wx data not being received. Graphical METAR overlay is available but not displayed.				
4 =	Y 🖪	Wx data not being received. Graphical METAR overlay is enabled and displayed.				
	⊘ 🖩	Radio Fault. Graphical METAR overlay is available but not displayed.				
	⊗ 🖪	Radio Fault. Graphical METAR overlay is enabled and displayed.				
N/A	No TFR	TFR data is not being received.				
	Icon present.					
N/A	$T_{F_{R}}$	TFR data is being received but is not currently being displayed.				
N/A	$T_{F_{R}}$	TFR data is being received and displayed.				
Icon		Description				
ÓL	0 min – 15 i	nin Datalink lightning information received and displayed.				
≸ L	0 min – 15 i	min Datalink lightning Information received but not displayed.				
S L	15 min – 30	min Datalink lightning information received and displayed but data is more than 15 minutes old.				
≸ L	15 min – 30	min Datalink lightning information received but not displayed and data is more than 15 minutes old.				
S.	Unavailable	Datalink lightning is not being received.				

INTERACTION OF CONTROLS

	MAP	WX - Radar	WX - Stormscope®	WX - VDL/XM	TRFC	TERR	AUX
JOYSTICK	Used to point at any item on map.	Controls Tilt and Track Line .	Clears Strikes	Used to point at items on map.	Not Active	Not Active	Not Active
MODE	Soft Key labeled RESET STICK when joystick is active.	Sequence through WX, WX/ARL* and GND Mapping modes.	Sequence through Cell and Strike modes.	Displays SELECT FIS PRODUCT Menu.	Sequence through Relative and Absolute modes.	Selects Terrain Warnings Inhibited* or Enabled*.	Soft Key
RNG ▲	Active	Active	Active	Active	Active	Active	Soft Key
RNG ▼	Active	Active	Active	Active	Active	Active	Soft Key
VIEW	Soft Key labeled MORE INFO when joystick is active to get more info about items pointed to on the map.	Sequence through Horizontal and Vertical Profile* views.	Sequence through 120° and 360° views.	Not Active	Sequence through Normal, Above and Below views.	Sequence through 120° and 360° views (Default = 360°).	Soft Key
OVLY	Active when overlays available. Brings up overlay select Soft Keys.	Active when overlays available. Brings up overlay select Soft Keys.	Active when overlays available. Brings up overlay select <i>Soft Keys</i> .	Active when overlays available. Brings up overlay select <i>Soft Keys</i> .	Active when overlays available. Brings up overlay select Soft Keys.	Active when overlays available. Brings up overlay select Soft Keys.	Soft Key
OUTER	Rotate to bring up Airport More Info page and select the airport identifier.	Sby, Tst, On, Set (Default = Sby).	Not Active	Rotate to select report identifier. Also, sequences Graphical Weather Pages.	Rotate to select Sby, Tst, On, Off.	Rotate to select Tst, Nrm, Set (Default = Nrm).	Not Active
INNER	Rotate to bring up Airport More Info page and select the airport identifier.	Gain control*	Not Active	Rotate to select report identifier. Also, sequences Graphical Weather Pages.	Rotate to select Mute On, Mute Off.	Not Active	Not Active
* Not available	* Not available in all configurations						

MAP FUNCTION



- 1 Display Range RNG:###nm
- 2 Current Track TRK:###
- 3 Current Ground Speed GS:###kt
- 4 Distance to Pointer PDIS: ###.#nm
- 5 Position Readout Current aircraft position
- 6 Control Knob Label Indicates Control Knob is active for data entry
- 7 Bearing to Pointer PBRG: ###
- 8 MORE INFO Soft Label
- 9 Range Rings Outer ring radius is selected range, inner ring radius is one half the selected range
- 10 RESET STICK Soft Label
- 11 Joystick Label
- 12 Lightning Overlay
- 13 Desired Track Active leg oriented to magnetic desired track (magenta)
- 14 GPS Flight Plan Overlay Current GPS flight plan
- **15 Aircraft Symbol** Indicates present position. Stylized airplane when heading input is present, a plus symbol with no heading.
- 16 Distance to Waypoint DIS:###.#nm
- 17 North Pointer
- 18 Available Functions Displays icons representing data available (black) and displayed (color)

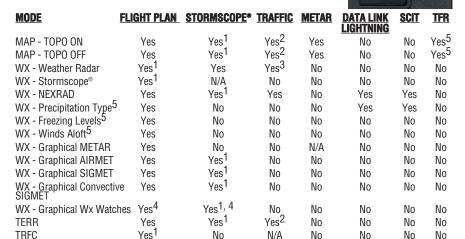
MAP ICONS

Feature	Conditions	Map Icons		Other Characteristics
		TOPO on	TOPO off	
Political Boundary			Not displayed	
Railway		100	Not displayed	
Roads	Major	70	Not displayed	
	Prime	ব্ৰ	Not displayed	
	Other	98	Not displayed	
Victor Airways		V261	• V4 **	
Heliroutes		CREEK	CREEK	
Airspace Boundary	FIR/UIR	OIS	BID	Boundary label will be FIR, UIR, or F/U per airspace type.
	Class A/B/C	-B-	8	Boundary label will be A , B , or C per airspace type.
	Class D/E/F/G	D	ø	Boundary label will be D , E , F or G per airspace type.
	Class Unknown	34	1	
	Danger	DGR	ogr	Boundary label will be DGR .
	Restricted	RES	RES	Boundary label will be RES .
	Prohibited	PHB	PHB	Boundary label will be PHB .
	Temporary Flight Restrictions	TFR	`\ mer + •	Boundary label will be TFR .
	MOA/MATZ	MOA	MOA	Boundary label will be MOA or MATZ per airspace type.
	Other SUA (Radar Area, Alert, Caution, Training, Warning or Unspecified/ Unknown)	ALT	ALT	Boundary label will be ALT, CTN, DGR, MOA, PHB, RES, TNG, WNG, ADV, CBA, TRA, TSA, or UNK.
Cities		•	Not displayed	
Intersections (INTs)			_	
Obstacles	Lighted - Tall	A.	Ä	Label will indicate MSL ele-
	Lighted - Short	*	Ä	vation followed by AGL elevation in parentheses [e.g.
	Unlighted - Tall	Į.	<u> </u>	"1546 (590)"]. Tall is defined
	Unlighted - Short	<u> </u>	^	as over 1,000 ft. AGL.
NDBs		(0)	©	

Feature	Conditions	Мар	lcons	Other Characteristics
		TOPO on	TOPO off	
VORs	With DME	•	❖	
	Without DME	O	⊙	
Airports	Hard runway + IFR approach	Line represents primary runway	Line represents primary runway	If the database does not have runways for the air- port, then the icon will not
	Hard runway, no IFR approach	Line represents primary runway	Line represents primary runway	indicate a runway (no line will be displayed).
	IFR approach available	Line represents primary runway	Line represents primary runway	
	Soft or unknown runways	Line represents primary runway	Line represents primary runway	
Airport Runways	Primary, hard surface	112	17	Runways are shown for airports within 5 nm of
	Other hard sur- face	PEE	/ ²²	current position and selected range is 10 nm
	Primary soft sur- face		17	or less. Runway ends are labeled with the proper
	Other soft sur- face	P	/ ²¹	runway identifier if selected range is 1 nm.
Helipads		®	æ	
VRPs		⊕	Not displayed	

OVERLAYING DATA

OVERLAY TYPE



¹ Requires remote heading input

OVLY

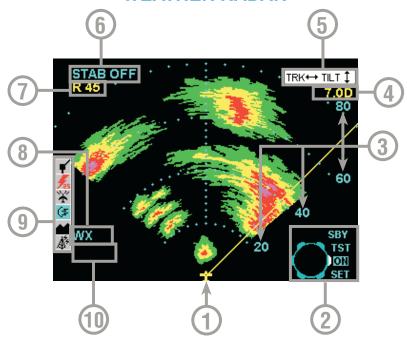
² TCAS/TAS requires remote heading input

³ TIS requires remote heading input

⁴ Not available with XM

⁵ Not available with VHF Datalink FIS

WEATHER RADAR



- 1 Aircraft Symbol
- 2 Knob Function Label Rotating the outer knob selects between Standby (SBY), Test (TST), ON and SET modes.
- 3 Display Range Indications
- 4 Tilt Angle XX.X Degrees up (U) or down (D).
- 5 Joystick Function Label Moving the joystick up and down adjusts the radar tilt. Moving the joystick left and right adjusts the location of the yellow track line.
- 6 Stabilization Indication
- 7 Track Angle
- 8 WX Radar Mode Indication TEST, WX, WX/ARL (Auto Range Limiting or MAP (Ground Mapping Mode)
- 9 Available Functions Displays icons representing data available (black) and displayed (color)
- 10 Fault Message Window See Error and Fault Messages

AVAILABLE WEATHER RADAR FUNCTION ICONS

Icon	Description			
	Standby weather radar being displayed.			
(₹	Active weather radar being displayed.			
	Weather radar in standby mode, not being displayed.			
(I	Weather radar in active mode, not being displayed.			
0	Weather radar data invalid / not being received. Previously in standby.			
Œ	Weather radar data invalid / not being received. Previously active.			

STORMSCOPE

AVAILABLE STORMSCOPE FUNCTION ICONS

Icon	Description
4	Stormscope [®] information being received and displayed.
₹ _{as}	Stormscope [®] information being received and displayed. Strikes have occurred within 25 nm.
#	Stormscope [®] information being received but not displayed.
₹ _{as}	Stormscope [®] information being received but not displayed. Strikes have occurred within 25 nm.
Ø	Stormscope® information not being received / data invalid.

LIGHTNING ICONS

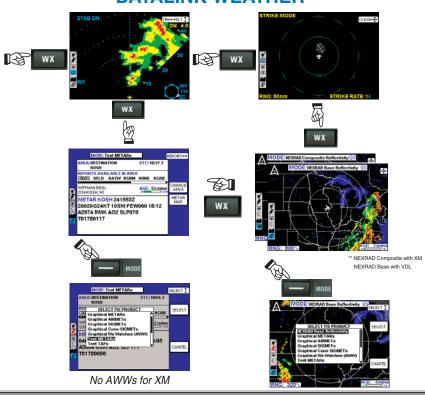
WX-500

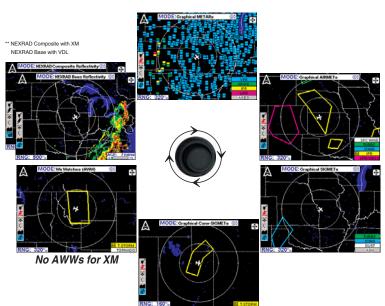
Lightning Icon	Color	Used on Pages	Additional Requirements	
5	White	MAP (TOPO-ON or TOPO-OFF)	The small solid icon is used when the display selected range is 25 nm	
4	White	WX, TRFC, TERR	or greater.	
4	White Outline	MAP (TOPO-ON or TOPO-OFF)	The large outlined icon is used when the display selected range is less	
4	White Outline	WX, TRFC, TERR	than 25 nm.	

WX-1000E

Lightning Icon	Intensity Level	Color	Used on Pages	Comments
ИИ	1 (Light)	White	MAP,	The small solid icon is used when the dis-
4 4	2 (Moderate)	with black	WX, TERR	play selected range is 25 nm or greater.
14 14	3 (Heavy)	border		The WX-1000E indicates areas of lightning detected (not individual discharges). Light activity (level 1) is an area with up to 8 strikes/minute; moderate (level 2) is an area with 9-25 strikes/minute and heavy (level 3) is an area with 26 or more strikes/minute.
MM	1 (Light)	White with black	MAP, WX, TERR	The large outlined icon is used when the display selected range is less than 25 nm.
MW	2 (Moderate)	border		The larger icon reminds the user that the accuracy of lightning placement is not as good as that suggested by the map scale.
MM	3 (Heavy)			

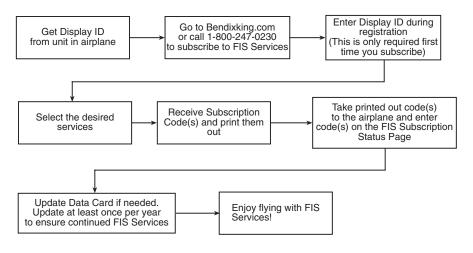
FIS VDL AND XM DATALINK WEATHER





SUBSCRIBING TO VDL SERVICES

NOTE: The following details require selection of a KDR-510 as the source for datalink weather data.



SETTING UP A VDL SUBSCRIPTION









Note the FIS Display ID and contact Wingman Services at www.bendixking.com or call 1-800-247-0230. This ID is used to obtain the Subscription Code. After obtaining the Subscription Code press the **ADD SUBSCR** Key.





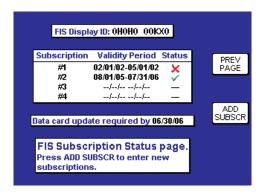
Use the inner knob to enter characters and the outer knob to move to the next field.



After the last character is entered, press the **ENTER** Key. After the subscription is accepted it will be displayed.



CHECKING VDL SUBSCRIPTIONS



Symbol	Status	Description
_	Unknown	The system time is not known or no subscription is programed.
•	Future	The current system time is prior to the displayed starting date. This subscription is not valid for enabling access to FIS today but it will become valid at some point in the future.
~	Valid	The current system time is after the displayed starting date and before the displayed ending date.
< ✓	Almost Expired	The current system time is within seven (7) days of the displayed ending date.
×	Expired	The current system time is beyond the displayed ending date.

NOTE: Only the validity period for subscriptions is shown on the display. To determine which products are available with each subscription, access the account on Wingman Services at www.bendixking.com.

XM WX SUBSCRIPTIONS

An XM subscription must be set up to receive XM WX services. This process involves accessing the XM Radio website and a toll-free phone call to XM Radio.

SETTING UP AN XM WX SUBSCRIPTION

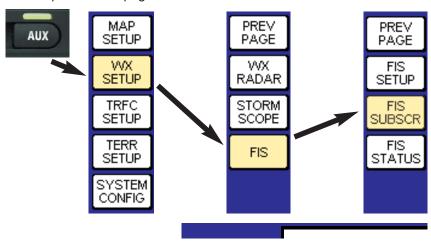
NOTE: The following details require selection of an XM receiver (such as a KDR-610) as the source for datalink weather data.

Setting up an XM WX subsrcription can be accomplished by following these steps:

1a. Retrieve the 8-digit ID from the KDR 610 label (should be attached to the opposite end of the receiver from the connectors)

OR

1b. Apply power to the display and receiver, select the AUX key, the WX Setup softkey, the FIS softkey, and finally the FIS Subscription softkey. Record the 8-digit receiver ID displayed at the bottom of the FIS Subscription Status page.



- 2. Go to the website www.xmradio.com/weather to select your weather subscription package.
- Apply power to the XM receiver, and place the receiver's antenna where the signal can be received from the XM satellites. Make certain the antenna has a good view of the southern horizon.
- 4. With the Receiver ID and desired subscription package in hand, contact XM Radio at 1-800-985-9200 for assistance in activating your receiver and setting up a weather product subscription. The receiver should remain in view of the satellites during the subscription process.

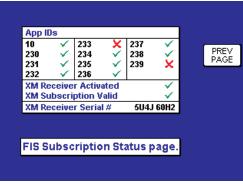
Verify the activation of the receiver and the subscription validity by selecting and viewing the "FIS Subscription Status Page" on the KMD screen.

If for any reason the receiver was not exposed to the XM signal within the initial 24 hour broadcast period, or is not successfully authorized for some other reason, a subsequent 15 minute resend of the subscription information can be obtained. Get the receiver ID (instructions in step 1a or 1b above), go to the website http://www.xmradio.com/refresh/, and follow the instructions.

CHECKING XM WX SUBSCRIPTIONS

To check the FIS XM subscription and receiver status, apply power to the display and receiver, select the **AUX** key, then the **WX SETUP** softkey, the **FIS softkey**, and finally the **FIS SUBSCR** softkey, as in step 1b previously.

The Application IDs are displayed along with the receiver activation and subscription status. The Application IDs provide the groupings of products that are part of the subscription package. Green checkmarks indicate those App IDs or product groups that are contained in the subscription package for the XM receiver. Contact XM Radio at 1-800-985-9200 with the App ID informa-



tion if the subscribed products are not received and displayed.

Symbol	Subscription Status	Description
— (white)	No Information	The XM FIS receiver subscription information message has not been received.
X Not Subscribed		The user is not authorized for the Application ID.
V	Subscribed	The user is authorized for the Application ID.

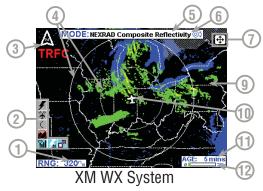
App ID	Product
App ID 10	Radar Coverage, METARs, County Warnings, City Forecasts
App ID 231	NEXRAD Radar, TAFs, Freezing Level, TFRs
App ID 232	SCITs, Lightning, Storm (Echo) Tops, Surface Precipitation, Winds Aloft, AIRMETs, SIGMETs, Cloud Tops

AVAILABLE FIS FUNCTION ICONS

VDL	XM	Description
♠	Ϋ́	No Wx data is currently being received but previously received data is being displayed.
$\Phi_{\widetilde{\chi}_{\mathcal{F}}}$	∑≕	Wx data is currently being received from a signal and displayed. XM signal is weak.
$\Phi_{\widetilde{\chi}_{p}}$	Ņ.	Wx data is currently being received from a signal and displayed. XM signal is marginal.
$\Phi_{\widetilde{\chi}_{\mathcal{F}}}$	Ϋ́	Wx data is currently being received from a signal and displayed. XM signal is good.
	Ÿ	Wx data not being received nor displayed on present page.
\$ × ×	<u> Yill</u>	Wx data is currently being received from a signal but not displayed on present page.
	\otimes	Fault with connection or data link radio.
ቆ■	Y.	Graphical METAR overlay is available but not displayed.
₽■	711	Graphical METAR overlay is enabled and displayed.
♣ 🔛	Ÿ 	Wx data not being received. Graphical METAR overlay is available but not displayed.
4 🗄	Ÿ 🖪	Wx data not being received. Graphical METAR overlay is enabled and displayed.
	⊗	Radio Fault. Graphical METAR overlay is available but not displayed.
	8	Radio Fault. Graphical METAR overlay is enabled and displayed.
N/A	No TFR	TFR data is not being received.
	present.	
N/A	$T_{F_{R}}$	TFR data is being received but is not currently being displayed.
N/A	T_R	TFR data is being received and displayed.

NEXRAD PAGE





- 1 Range Scale Indicates selected range.
- 2 Available Functions -Displays icons representing data available (black) and displayed (color).
- 3 North Pointer Indicates north.
- 4 Range Rings Outer ring radius is selected range and inner ring radius is one half the selected range.
- **5 MODE** Indicates the weather product being displayed.
- 6 Control Knob Icon -Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 7 Joystick Label Indicates joystick is active and can be used to pan map.
- 8 No Coverage Area -Crosshatch pattern indicates area of no coverage.
- 9 Precipitation NEXRAD precipitation returns.
- 10 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 11 Age of Data Age of the data based on current time minus NEXRAD issue time.
- 12 Age Status Bar Indicates percentage of age versus elapsed time before expiration. The bar will be green the first 50% then turn yellow.

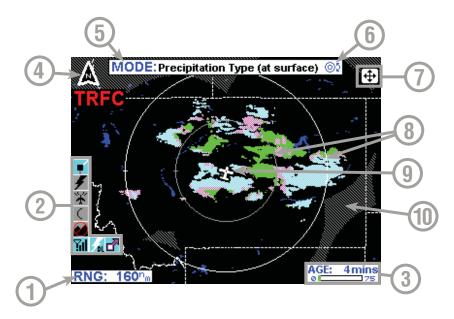
NEXRAD INTENSITY

Precipitation intensity is depicted using colors as follows:

Magenta	Intense	Level 5-8	50+ dBz
Red	Heavy	Level 3-4	40-50 dBz
Yellow	Moderate	Level 2	30-40 dBz
Green	Light	Level 1	15-30 dBz (VDL) 10-30 dBz (XM)

NEXRA	D LEGE	ND
Intensity	dBZ	Level
Intense	50+	5-8
Heavy	40-50	3-4
Moderate	30-40	2
Light	15-30	1
	0-15	0
Na	Data	

PRECIPITATION TYPE

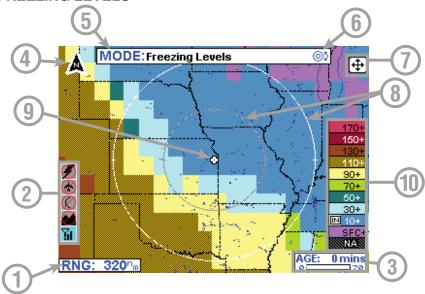


- 1 Range Scale Indicates selected range.
- **2 Available Functions** Displays icons representing data available (black) and displayed (color).
- **3 Age Status Bar** Indicates percentage of age versus elapsed time before expiration. The bar will be green the first 50% then turn yellow.
- 4 North Pointer Indicates north.
- **5 MODE** Indicates the weather product being displayed.
- **6 Control Knob Icon** Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 7 Joystick Label Indicates joystick is active and can be used to pan map.
- **8 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 9 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 10 No Coverage Data Available Indicates there is not any Freezing Levels available in that area.

PRECIPITATION TYPE COLOR CODING



FREEZING LEVELS



- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- **3 Age Status Bar** Indicates percentage of age versus elapsed time before expiration. The bar will be green the first 50% then turn yellow.
- 4 North Pointer Indicates north.
- **5 MODE** Indicates the weather product being displayed.
- **6 Control Knob Icon** Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 7 Joystick Label Indicates joystick is active and can be used to pan map.
- **8 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 9 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 10 Freezing Level Color Key Colors indicating Freezing Levels at the height shown.

FREEZING LEVELS COLOR CODING

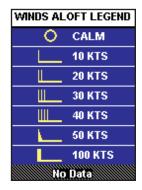
FREEZING LEVELS LEGEND
100s of feet MSL
170+
150-170
130-150
110-130
090-110
070-090
050-070
030-050
010-030
Sfc-010
No Data

WINDS ALOFT

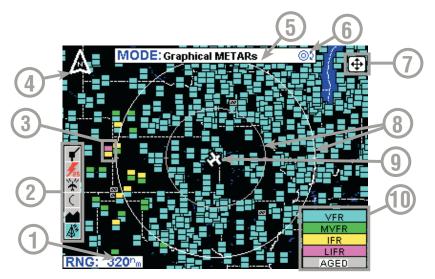


- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 Age Status Bar Indicates percentage of age versus elapsed time before expiration. The bar will be green the first 50% then turn yellow.
- 4 North Pointer Indicates north.
- **5 MODE** Indicates the weather product being displayed.
- **6 Control Knob Icon** Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 7 Joystick Label Indicates joystick is active and can be used to pan map.
- **8 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 9 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- **10 FL UP and FL DN** Increments the Winds Aloft flight level that is being played.

WINDS ALOFT SCALE

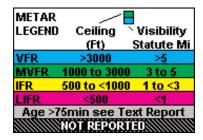


GRAPHICAL METAR PAGE

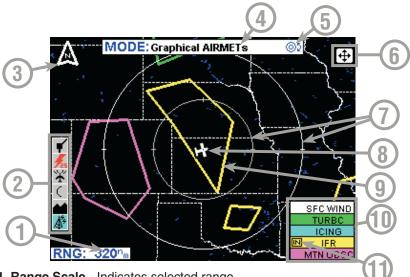


- 1 Range Scale Indicates selected range.
- **2 Available Functions** Displays icons representing data available (black) and displayed (color).
- 3 Graphical METAR Icon Ceiling indicated in top box, visibility in the bottom box and ICAO identifier of issuing airport. Note that ICAO identifiers are not displayed on all range settings.
- 4 North Pointer Indicates north.
- **5 MODE** Indicates the weather product being displayed.
- 6 Control Knob Icon Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 7 Joystick Label Indicates joystick is active and can be used to pan map.
- 8 **Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 9 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 10 METAR Color Key Colors indicating flight rules pertaining to ceiling and visibility.

GRAPHICAL METAR COLOR CODING

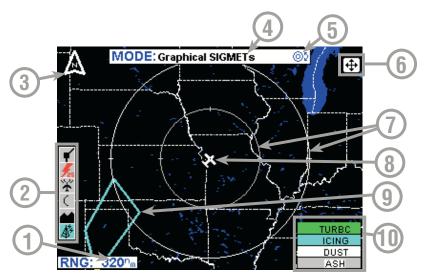


GRAPHICAL AIRMET PAGE



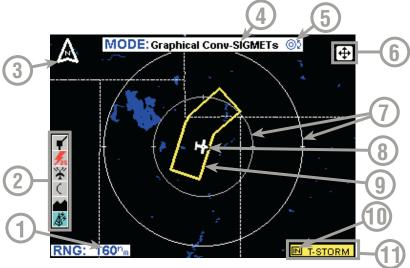
- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 North Pointer Indicates north.
- 4 MODE Indicates the weather product being displayed.
- 5 Control Knob Icon Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 6 Joystick Label Indicates joystick is active and can be used to pan map.
- 7 Range Rings Outer ring radius is selected range and inner ring radius is one half the selected range.
- 8 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 9 AIRMET Boundary Color coded line indicating the boundaries of an AIRMET.
- 10 AIRMET Color Key Colors indicating AIRMET type.
- 11 IN Indicates the current aircraft position is IN " an IFR AIRMET.

GRAPHICAL SIGMET PAGE



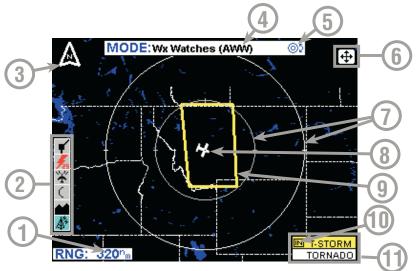
- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 North Pointer Indicates north.
- 4 MODE Indicates the weather product being displayed.
- 5 Control Knob Icon Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 6 Joystick Label Indicates joystick is active and can be used to pan map.
- **7 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 8 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 9 SIGMET Boundary Color coded line indicating the boundaries of a SIGMET.
- 10 SIGMET Color Key Colors indicating SIGMET type.

GRAPHICAL CONVECTIVE SIGMET PAGE



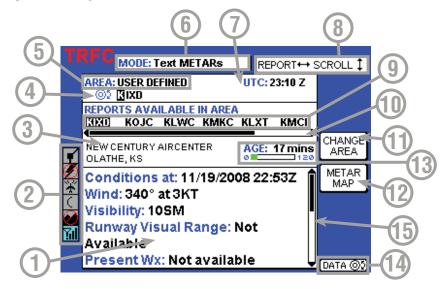
- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 North Pointer Indicates north.
- 4 MODE Indicates the weather product being displayed.
- **5 Control Knob Icon** Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 6 Joystick Label Indicates joystick is active and can be used to pan map.
- **7 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 8 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 9 Convective SIGMET Boundary Color coded line indicating the boundaries of a Convective SIGMET.
- 10 IN Indicates the current aircraft position is "IN" a thunderstorm Convective SIGMET.
- 11 Convective SIGMET Color Key Colors indicating Convective SIGMET type.

GRAPHICAL ALERT WEATHER WATCHES PAGE (AWW) (VDL ONLY)

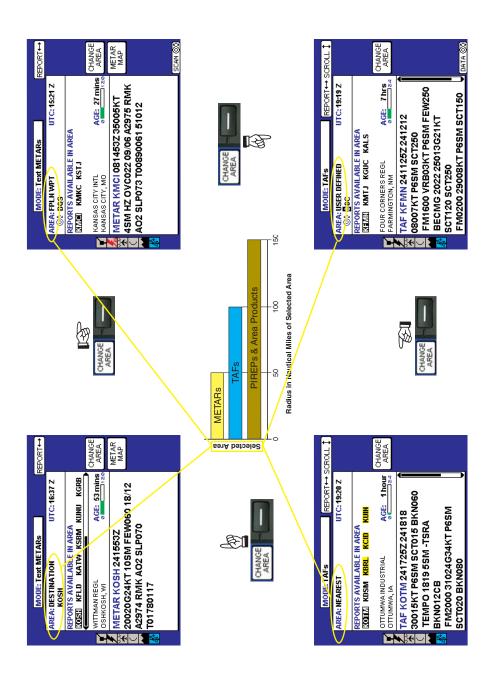


- 1 Range Scale Indicates selected range.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 North Pointer Indicates north.
- **4 MODE** Indicates the weather product being displayed.
- **5 Control Knob Icon** Displayed when the Control Knobs are available for cycling through the graphical weather products.
- 6 Joystick Label Indicates joystick is active and can be used to pan map.
- **7 Range Rings** Outer ring radius is selected range and inner ring radius is one half the selected range.
- 8 Aircraft Symbol Indicates present aircraft position and heading (if available) or track.
- 9 Weather Watch Boundary Color coded line indicating the boundaries of an Alert Weather Watch.
- **10 IN** Indicates the current aircraft position is "IN" a severe thunderstorm watch area.
- 11 Weather Watch Color Key Colors indicating Alert Weather Watch type.

FIS TEXT PAGE



- 1 Text Field The translated METARS data is displayed first in this window followed by the encoded weather report is displayed in this field.
- 2 Available Functions Displays icons representing data available (black) and displayed (color).
- 3 Selected Report Info Displays name, city and state of selected report.
- 4 Selected Area Identifier Displays the identifier of the area selection.
- **5 Area Selection** Pressing the CHANGE AREA soft key cycles between Destination, Flightplan WPT, Nearest and User Defined.
- 6 Mode Pressing the MODE key will display the SELECT FIS PRODUCT Menu.
- 7 UTC Current UTC time.
- 8 Report Each horizontal movement of the joystick will move the cursor over the next report in the AVAILABLE REPORTS field.
- 9 Available Reports Shows available reports based on the selection in the AREA field. Special, urgent or amended reports are highlighted in yellow.
- 10 Scroll Bar Left/Right Indicates there are more available reports than can be displayed on the screen. Move the joystick left/right to cycle through the reports.
- 11 Change Area Soft Key Cycles the AREA field between Destination, Flightplan Waypoint (FLPN WPT), Nearest and User Defined.
- 12 METAR Map Soft Key When this key is pressed the graphical METAR page is displayed with the map centered on the selected METAR. This is only available when valid data for graphical METARs is being received.
- 13 Age of Report Age of report based on UTC time minus time of report. The bar indicates percentage of age versus elapsed time before expiration. The bar will be green the first 50% then turn yellow.
- **14 Knob Function Label** Indicates the knob function is set to DATA input (USER DEFINED) or SCAN data (FLPN WPT).
- 15 Scroll Bar Up/Down Indicates there is more available data in this report than can be displayed on the screen. Move the joystick Up/Down to cycle through the reports.



TRAFFIC AVOIDANCE

AVAILABLE TRAFFIC FUNCTION ICONS

Icon	Description
*	Standby traffic sensor being displayed.
**	Active traffic information being displayed.
*	Traffic sensor in standby mode, not being displayed.
Ť	TIS service not available.
*	Traffic sensor active, not being displayed.
$^{\odot}$	Traffic sensor data invalid / not being displayed.

TCAS/TAS SYMBOLOGY



NON-THREAT TRAFFIC



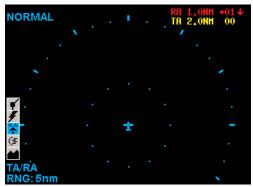
PROXIMITY INTRUDER TRAFFIC



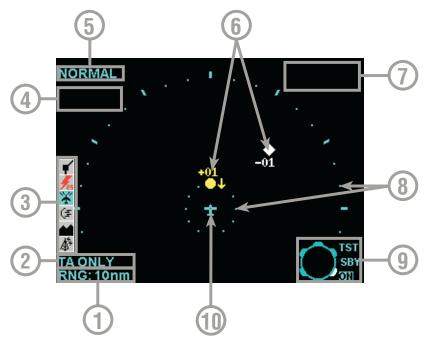
TRAFFIC ADVISORY (TA)



RESOLUTION ADVISORY (RA)



"NO-BEARING" TRAFFIC



- 1 Display Range RNG:##nm
- 2 TAS (TCAS) Operating Mode TAS (TCAS) TST, TAS (TCAS) SBY, TA Only, TA/RA or TAS (TCAS) Fail
- 3 Available Functions Displays icons representing data available (black) and displayed (color)
- 4 Current Flight Level FL:###
- **5** Altitude Volume NORMAL, ABOVE, BELOW or UNRESTRICTED (not available in all configurations)
- 6 Traffic Intruder Symbols Indicates type of traffic, altitude of traffic and vertical trend of traffic.
- 7 "No Bearing" Intruder Dispay Area AA #.#NM ±XX\$ (Where AA is TA or RA)
- 8 Range Rings Outer ring radius is selected range, inner ring radius is always two nautical miles
- 9 Outer Knob Icon Shows current knob selection
- **10 Aircraft Symbol** Stylized airplane indicating aircraft position

TIS SYMBOLOGY



PROXIMITY INTRUDER TRAFFIC



PROXIMITY INTRUDER NON-ALTITUDE REPORTING (NAR) TRAFFIC



TRAFFIC ADVISORY (TA)

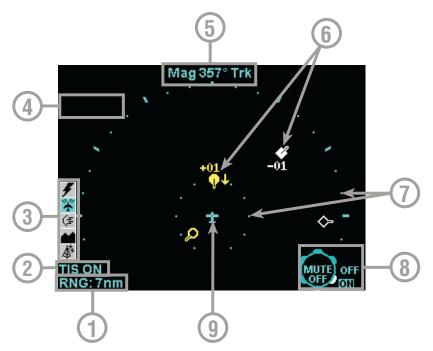


TRAFFIC ADVISORY NON-ALTITUDE REPORTING (NAR)



TIS Capable Mode S Radar Sensor Sites

Covered by US Pat. 6512975

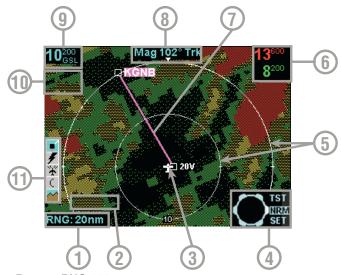


- 1 Display Range RNG:##nm
- 2 TIS Operating Mode TIS ON, TIS OFF or TIS FAIL
- **3 Available Functions** Displays icons representing data available (black) and displayed (color).
- 4 Current Flight Level FL:###
- 5 Display Orientation When in magnetic heading-up orientation, Mag###° Hdg; when in magnetic track-up orientation, Mag###° Trk; when heading or track is not available from the system, No Hdg or Trk. The received traffic bearing and ground track is corrected when the system has heading or track.
- 6 Traffic Intruder Symbols Indicates type of traffic, altitude of traffic, vertical trend of traffic and ground track of traffic.
- 7 Range Rings Outer ring radius is selected range, inner ring radius is always two nautical miles.
- 8 Knob Icon Outer knob selects TIS ON or OFF. Inner knob selects MUTE ON or MUTE OFF for muting of "TIS Unavailable" audio message.
- 9 Aircraft Symbol Stylized airplane indicating aircraft position.

TERRAIN AVOIDANCE

AVAILABLE TERRAIN FUNCTION ICON

Icon	Description
\sim	EGPWS with warnings enabled, being displayed.
2	EGPWS with warnings disabled, being displayed.
	EGPWS with warnings enabled, not being displayed.
<u> </u>	EGPWS with warnings disabled, not being displayed.
\sim	EGPWS data invalid / not being received.



- 1 Display Range RNG:###nm
- 2 Terrain Awareness State Displays EGPWS TEST when self-test is active, TERR FAIL when terrain is INOP due to a fault, TERR N/A when terrain is not available (no fault) and TERR INHBT when Terrain Awareness Warnings have been manually inhibited. The terrain picture will be blacked out if the state is TERR FAIL or TERR N/A (Some installations will also be blacked out for TERR INHBT).
- 3 Aircraft Symbol Stylized airplane except in north-up mode when it is a plus symbol. Indicates present position.
- 4 Outer Rotary Knob (not present for all installations) Allows selection of Normal (NRM), Test (TST) or Settings (SET) mode. Default is Normal.
- 5 Range Rings Outer ring radius is selected range, inner ring radius is one half the selected range. Value of inner ring displayed at bottom of inner ring in 360° views and at the left edge of the inner ring in 120° views.
- **6 EGPWS Peaks Elevation** (not present for all installations) Maximum peaks elevation displayed over Minimum peaks elevation, #####
- 7 GPS Flight Plan Overlay Current GPS flight plan.
- 8 Display Orientation When in magnetic heading-up orientation, Mag###° Hdg; when in true heading-up orientation, Tru###° Hdg; when in magnetic track-up orientation, Mag###° Trk; when in true track-up orientation, Tru###° Trk; when in north- up orientation, NORTH
- 9 EGPWS Geometric Altitude (not present for all installations) #### MSL (Mean Sea Level) or ##### GSL (Geodetic Sea Level) depending on system configuration.
- 10 Check Altitude Flag Window CHECK ALT
- 11 Icon Bar Icons representing data available (black) and displayed (color).

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