



ProSeries ANALOG CAMERA INSTALLATION GUIDE

XVR Networks

2MED-VF-BNC
2MED-3.6-BNC
2MED-2.8-BNC-SL

2MTD-2.8-BNC
2MB-VF-BNC
2MB-3.6-BNC

Uniden surveillance products are not manufactured and/or sold with the intent to be used for illegal purposes. Uniden expects consumer's use of these products to be in compliance with all local, state, and federal law. For further information on video surveillance and audio recording legal requirements, please consult your local, state and federal officials.

Uniden constantly works on improving our products. This includes updating our documentation with the latest firmware changes. Go to www.uniden.com to find the latest version of all documentation.

CONTENTS

OVERVIEW	5
INSTALL EYEBALL DOME CAMERA	5
WHAT'S INCLUDED	5
INSTALL CAMERA	5
INSTALL TURRET DOME CAMERA	6
WHAT'S INCLUDED	6
INSTALL CAMERA	6
INSTALL LARGE BULLET CAMERAS	7
WHAT'S INCLUDED	7
INSTALL CAMERA	8
INSTALL SMALL BULLET CAMERAS	9
WHAT'S INCLUDED	9
INSTALL CAMERA	9
ANALOG CAMERA SETUP	10
OSD Line Controls	11
Exposure Menu	11
Backlight Mode Menu	11
White Balance Menu	12
Day/Night Switch Menu	12
Video setting	12
Restore factory setting and exit	13
SPECIFICATIONS	13
DOME CAMERAS	13
BULLET CAMERAS	14
COMPLIANCE	15
FCC PART 15	15
IC	15
THREE-YEAR LIMITED WARRANTY	16

ANALOG CAMERA INSTALLATION GUIDE

OVERVIEW

Uniden's Analog cameras can be installed in Uniden's XVR surveillance systems to provide HD over coax cable service.

EYEBALL DOME	TURRET DOME	LARGE BULLET	SMALL BULLET
		 	
2MED-VF-BNC	2MTD-2.8-BNC	2MB-VF-BNC	2MB-3.6-BNC
2MED-3.6-BNC			
2MED-2.8-BNC-SL			

INSTALL EYEBALL DOME CAMERA

WHAT'S INCLUDED

- IP camera
- Mounting template sticker
- Star-tipped Allen wrench
- 2-wire to 2.1mm barrel plug for optional 12V DC power input
- Installation screws and anchors
- Dessicant package

Network cable and power source are not included. SD cards are not included. If you plan on using the Automatic Network Restoration feature in the NVR, you will need to purchase an SD card.

INSTALL CAMERA

1. Remove the camera and installation items from the box. Verify that all parts are there.	
2. Hold the camera and sleeve steady and unscrew the ring from the base.	
3. Position the installation template sticker on the location (wall, ceiling, etc). Drill a 1" hole as indicated on the sticker. Install the anchors.	
4. Position the base on the template, aligning the screw holes to the anchors, and screw it into position.	

5. Connect the network cable tail to the house cabling through the 1" hole.

When using an optional external power supply, the AC socket outlet shall be installed near the equipment and be easily accessible.

If installed outdoors, the cable and all cable connections must be routed inside the wall.



6. Remove the dessicant packet from the sealed plastic envelope and position it inside the camera.



7. Reassemble the camera, sleeve, and ring. Position the assembly onto the base and adjust the camera to the correct viewing angle.

As you adjust the camera position, check it through the NVR Preview screen.

8. When the viewing angle is correct, tighten the ring to the base.

As you tighten the ring, keep adjusting the camera as needed.

INSTALL TURRET DOME CAMERA

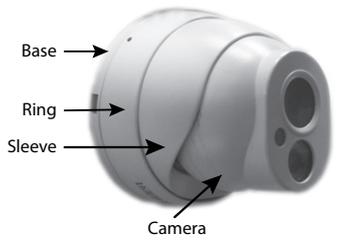
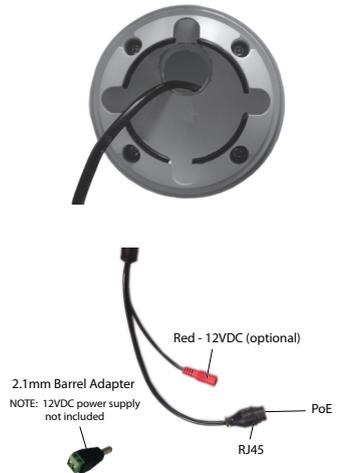
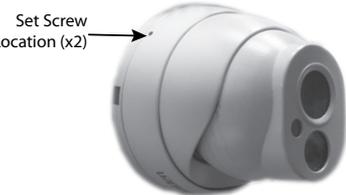
WHAT'S INCLUDED

- IP camera
- Mounting template sticker
- Star-tipped Allen wrench
- 2-wire to 2.1mm barrell plug for optional 12V DC power input
- Installation screws and anchors
- Dessicant package

Network cable and power source are not included. SD cards are not included. If you plan on using the Automatic Network Restoration feature in the NVR, you will need to purchase an SD card.

INSTALL CAMERA

1. Remove the camera and installation items from the box. Verify that all parts are there.

<p>2. Hold the camera and sleeve steady and unscrew the ring from the base.</p>	
<p>3. Position the installation template sticker on the location (wall, ceiling, etc). Drill a 1" hole as indicated on the sticker. Install the anchors.</p>	
<p>4. Position the base on the template, aligning the screw holes to the anchors, and screw it into position.</p>	
<p>5. Connect the network cable tail to the house cabling through the 1" hole.</p> <p>When using an optional external power supply, the AC socket outlet shall be installed near the equipment and be easily accessible.</p> <p>If installed outdoors, the cable and all cable connections must be routed inside the wall.</p>	
<p>6. Reassemble the camera unit. Remove the dessicant packet from the sealed plastic envelope and position it inside the camera unit.</p>	
<p>7. Screw the camera unit to the base securely enough to adjust the camera position. Double check the position through the NVR Preview screen.</p> <p>Use an oil-free soft brush or blow gently into the camera dome to clear any dust or dirt.</p>	
<p>8. Tighten the ring to the base. Insert the set screws to lock the camera into position.</p>	

INSTALL LARGE BULLET CAMERAS

WHAT'S INCLUDED

- IP camera
- Mounting template sticker
- Camera-specific Allen wrench
- 2-wire to 2.1mm barrell plug for optional 12V DC power input
- Installation screws and anchors
- Dessicant package

- Rubber plug (grommet) to seal network cable hole

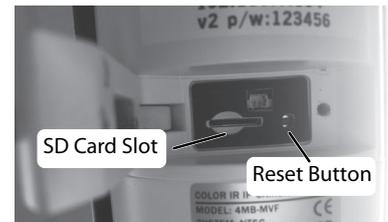
Network cable and power source are not included. SD cards are not included. If you plan on using the Automatic Network Restoration feature in the NVR, you will need to purchase an SD card.

INSTALL CAMERA

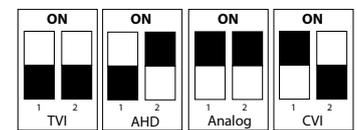
1. Remove the camera and installation items from the box. Verify that all parts are there.

2. Position the installation template at the location (wall, ceiling, etc). Drill a 1" hole as indicated on the sticker and install the anchors provided.

3. If your bullet camera is equipped with an SD slot, insert the SD card now before you install the camera. Unscrew the rectangular hinged panel and insert the SD card.



4. Set the DIP switches in the RJ45 according to the protocol on the cable tag.



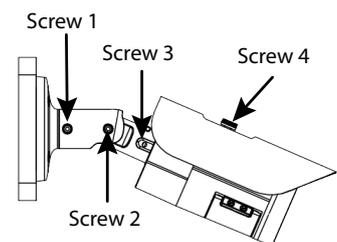
5. Thread the network cable tail through the grommet and connect it to the house cabling through the 1" hole. Plug the grommet into the hole. Using the screws provided, screw the camera base into position.

When using an optional external power supply, the AC socket outlet shall be installed near the equipment and be easily accessible.

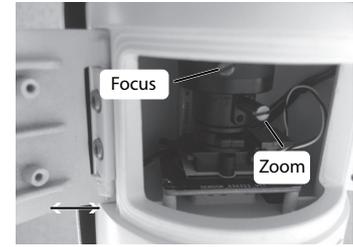
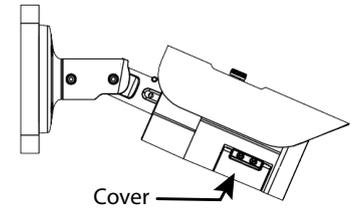
If installed outdoors, the cable and all cable connections must be routed inside the wall.



6. Loosen screw 1 to rotate the camera and stand up to 360°. Loosen screw 2 to adjust the camera body up to 90° and screw 3 to fine tune the camera position up to 90°. Loosen Screw 4 to adjust the sun shade. Check the camera's position through the NVR Preview screen as you adjust the camera.



7. Unscrew the access cover and swing it open. Unscrew the adjustment levers just enough to move them and adjust the image. Check the camera's focus and clarity through the NVR Preview screen.
 - Zoom - Move lever to the left for Telephoto (zoom in) and to the right for Fish-Eye (zoom out).
 - Focus - Move lever to left and right to adjust focus.
8. Tighten the adjustment lever screws when complete and close the compartment.



INSTALL SMALL BULLET CAMERAS

WHAT'S INCLUDED

- IP camera
- Mounting template sticker
- Camera-specific Allen wrench
- 2-wire to 2.1mm barrel plug for optional 12V DC power input
- Installation screws and anchors
- Dessicant package
- Rubber plug (grommet) to seal network cable hole

Network cable and power source are not included. SD cards are not included. If you plan on using the Automatic Network Restoration feature in the NVR, you will need to purchase an SD card.

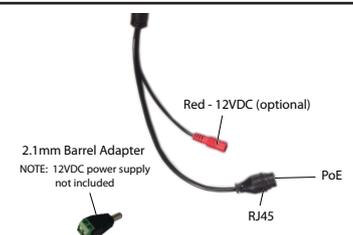
INSTALL CAMERA

1. Remove the camera and installation items from the box. Verify that all parts are there.
2. Position the installation template at the location (wall, ceiling, etc). Drill a 1" hole as indicated on the sticker and install the anchors provided.

3. Thread the network cable tail through the grommet and connect it to the house cabling through the 1" hole. Plug the grommet into the hole. Using the screws provided, screw the camera base into position.

When using an optional external power supply, the AC socket outlet shall be installed near the equipment and be easily accessible.

If installed outdoors, the cable and all cable connections must be routed inside the wall.



4. Loosen screw 1 to rotate the camera and stand up to 360°. Loosen screw 2 to adjust the camera body up to 90° and screw 3 to fine tune the camera position up to 90°. Check the camera's position through the NVR Preview screen as you adjust the camera.

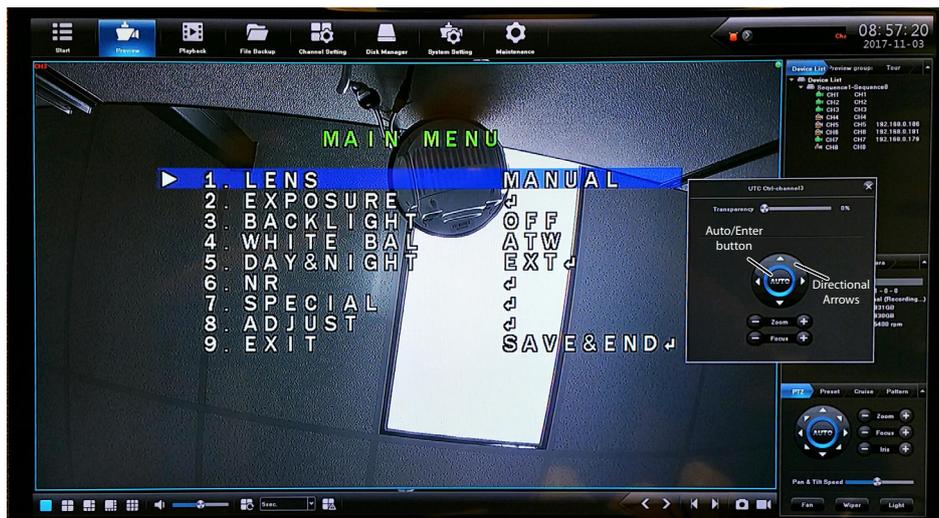


5. Once positioned, tighten all screws to secure.

ANALOG CAMERA SETUP

The ProSeries analog cameras connect to the XVR system via a BNC connector (analog video or Hi-Definition over Coax). Use the Up the Coax (UTC) menus to configure these cameras.

1. Select the Preview icon; live camera views display.
2. Double-click the camera image you want to adjust; a full screen camera view displays.
3. Right-click in the camera view and select UTC Ctl in the pop up menu.
4. A floating window displays the channel number in the title bar.
5. Click Auto button in the center of the directional controls; the MAIN MENU screen displays over the camera view.



Menu items with a return arrow (←↵) indicate that the menu item has a sub menu. Select the menu item and then select Auto in the directional controls image. The submenu displays.

MAIN MENU		
LENS	Manual lens	DC lens ←↵
EXPOSURE ←↵	Electronic shutter	DWDR
	AGC	Defog
	Sens-up	Return
	Brightness	
BACKLIGHT	Off	HLC ←↵
	BLC ←↵	
WHITE LIGHT	ATW	Outdoor mode
	AWC→SET ←↵	Manual mode ←↵
	Indoor mode	AWB
DAY/NIGHT	External switch ←↵	Color mode
	Auto ←↵	W/B MODE ←↵
NR ←↵	2D NR	Return
	3D NR	

SPECIAL ←↵	Camera name	Language
	Digital function ←↵	Live DPC ←↵
	Motion detection	RS458 ←↵
	Privacy mask	Return
ADJUST ←↵	Sharpness ←↵	MONITOR OUT ←↵
	Display screen ←↵	NTSC/PAL
	LSC	Return
SIGNAL OUTPUT ←↵	AHD/THD/CHD/CVBS	
EXIT	Save/Exit ←↵	Reset ←↵
	Not save ←↵	

OSD Line Controls

KEY	DESCRIPTION
◀	Press and hold left key of OSD for 5S, camera enters CVBS mode.
▶	Press and hold right key of OSD for 5S, camera enters AHD mode.
▲	Press and hold up key of OSD for 5S, camera enters CHD mode.
▼	Press and hold down key of OSD for 5S, camera enters THD mode.
◻	Press MENU , enter OSD main menu or use this button to enter menu or menu options.
⇐ ⇒	Use LEFT/RIGHT to move horizontally in menu options.
↑ ↓	Use UP/DOWN to move vertically in menu options.

Note: If the camera has a motorized lens, shortcut keys control motorized lens zoom and focus.

Exposure Menu

KEY	DESCRIPTION
Brightness ◀, ▶	To improve the current image brightness, move the cursor to the brightness, press left and right to select and adjust brightness parameters. Optional parameters value range is 1-100 (default 40).
Hidden menu ▶	In the exposure menu, press right for three times then confirm; enter the hidden menu to switch video mode.
GC ◀, ▶	Under low illumination, to increase the image brightness. Move the cursor to the gain, then press left and right to adjust the gain size. Range is 1-15 (Default = 15).

Backlight Mode Menu

KEY	DESCRIPTION
BLC ◀, ▶	To improve the current image brightness, move the cursor to the brightness and press left and right to select and adjust brightness parameters. Optional parameters value range is 1-100 (Default = 40).
HLC ▲, ▼	In strong light conditions, adjust brightness (too bright which will cause overexposure).

KEY	DESCRIPTION
WDR ▲, ▼	Open ultra WDR to effectively adjust the image brightness.
On/Off ▲, ▼	On/Off (Default = Off)

White Balance Menu

KEY	DESCRIPTION
ATW ▲, ▼	Adjust white balance parameters according to current conditions.
Manual Mode ▲, ▼	Manually adjust white balance parameters, blue/red gain according to current conditions.
Indoor Mode ▲, ▼	
AWB ▲, ▼	
AWC ▲, ▼	

Day/Night Switch Menu

The Day/Night switch has 4 settings; press left/right to switch between them.

KEY	DESCRIPTION
External switch mode ▲, ▼	Under external switch mode, photoresistance feels light intensity, control IR open, switch black and white mode.
Automatic Mode ▲, ▼	Automatic mode adjusts AGC value to adapt to current conditions.
Color Mode ▲, ▼	Color mode sets the image to color.
B/W Mode ▲, ▼	B/W mode changes the image to black and white and adjusts IR PWM size according to actual conditions.

Note: IR camera default external switch mode, non-IR camera default automatic.

Video setting

Adjust brightness, sharpness, digital NR parameters In the practical application, reach the ideal image effect.

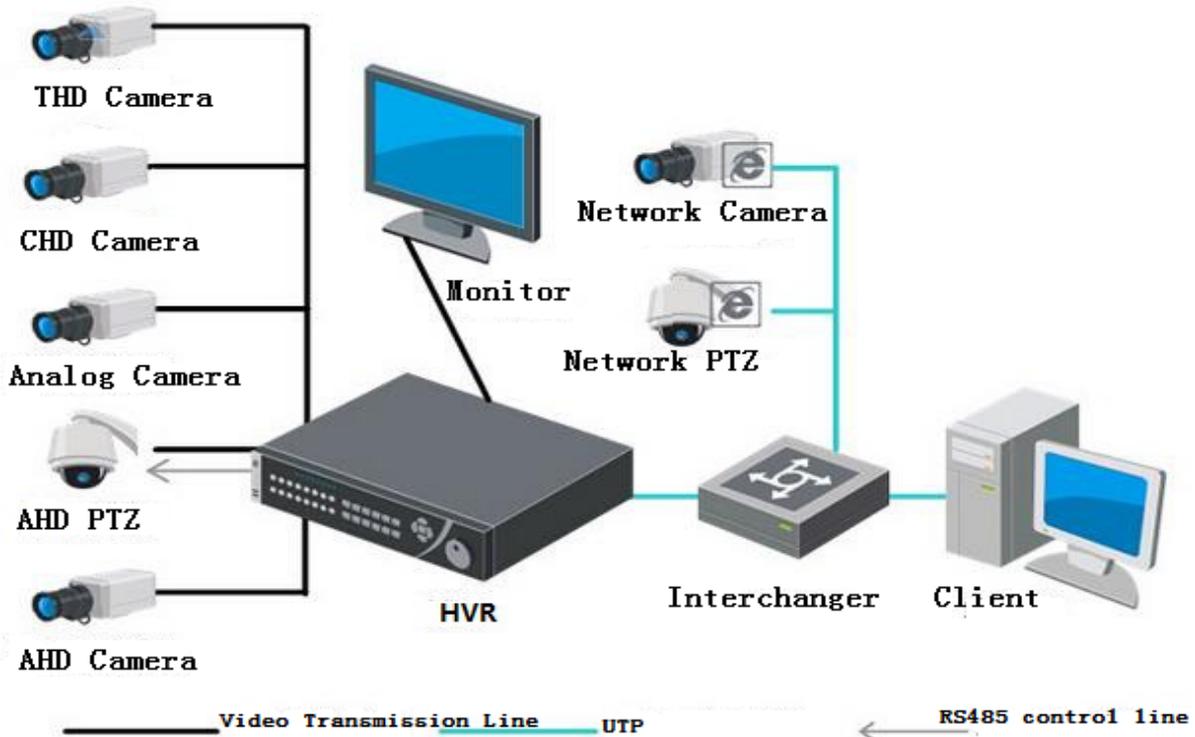
KEY	DESCRIPTION
Brightness ◀, ▶	Exposure->brightness, left/right switch can adjust the brightness of the whole image, optional parameters range is 1-100. (Default = 40)
Sharpness ◀, ▶	Adjust->sharpness, left/right switch can change the sharpness of objects edge optional parameters range is 0-10. (Default = 6).
Saturation ◀, ▶	Adjust->display screen, left/right switch red/blue gain value, make the image fuller, optional parameters range is 1-100.
Digital NR ◀, ▶	Main menu 2D and 3D two NR mode, Range is Low/Middle/High (Default = Middle).
Mirror ◀, ▶	Function->digital function, left/right switch can realize image interchange of left and right, turn upside down and central symmetry effect,etc, often used in image correction of the camera non-horizontal installation. (default = Off).

Restore factory setting and exit

KEY	DESCRIPTION
Restore Factory Settings ◀, ▶	Move the cursor to the exit, left/right switch to reset, press confirm to restore the parameters setting to the default.
Save and Exit ◀, ▶	Move the cursor to the exit, press confirm to exit the current menu setting, then save previous parameters setting.

Note: Video mode, system, language can't restore factory default.

Connection schematic diagram



SPECIFICATIONS

DOME CAMERAS

	2MED-VF-BNC	2MED-3.6	2MMD-2.8	2MTD-2.8
GENERAL				
IR Distance	100' Night Vision (36xΦ5 LEDs)		100' Night Vision (6X Array IR LEDs)	30-50' Night Vision (1X Array IR LEDs)
Protection Grade	IP65		IP66	IP65
Power	12VDC ± 10%			
Power Jack	2.1mm Power Jack for optional 12VDC input			
Power Consumption	<3.9W (IR LEDs +main board: 0.96W)		<6W	
Operating Temp	-4°F~131°F (-15.5°C~55°C)	-14°F~122°F (-9.7°C~50°C)	-4°F~131°F (-15.5°C~55°C)	-14°F~122°F (-9.7°C~50°C)

	2MED-VF-BNC	2MED-3.6	2MMD-2.8	2MTD-2.8
Operating Humidity	0% - 90%			
Dimensions (inch)	4.72(L) x 4.72(W) x 3.74(H)		4.61 (L) x 4.61 (W) x 2.6 (H)	3.28 (L) x 3.28 (W) x 3.66 (H)
CAMERA				
Sensor	1/2.9" SONY 2MP CMOS			
Video Frame Rate	1080p@25/30fps	1920 (H) x 1080 (V)	-----	-----
Resolution	1280H (CVBS output)	1920 x 1080		
Min. Illumination	0 Lux (IR ON)	0 Lux/ F1.4 (IR ON)		0 Lux/ F1.4 (IR ON)
Lens	2.8-12mm M14 Lens, standard ICR module	3.6mm ICR Lens	2.8mm Fixed	
Electronic Shutter	Auto/Manual (X30~1/50000)/FLK	Auto/Manual (1/25~1/10000), FLK		
R/N Ratio	≥ 50db (AGC OFF)			
Video Output	1.0Vp-p complex video output, 75Ω			
Output Model	PAL/NTSC adjustable			

BULLET CAMERAS

	2MB-VF	2MB-3.6
GENERAL		
IR Distance	130-165' Night Vision (3xIR-III LEDs)	100' Night Vision (36xΦ5 LEDs)
Protection Grade	IP66	
Power		
Power Jack	2.1mm Power Jack for optional 12VDC input	
Power Consumption	<9W	<6W
Operating Temp	-4°F~131°F (-15.5°C~55°C)	
Operating Humidity	0% - 90%	
Dimensions (in.)	10.35 (L) x 3.66 (W)* x 3.76 (H)	6.56 (L) x 2.60 (W) x 2.60 (H)
CAMERA		
Sensor	2.9" SONY 2.07 MP Progressive	
Effective Pixels	1920 (H) x 1080 (V)	
Video Frame Rate	1080P@25/30fps	
Resolution	1920 x 1080	
Min. Illumination	0Lux/F1.4 (IR ON)	
Lens	2.8-12mm varifocal lens	3.6mm

	2MB-VF	2MB-3.6
Electronic Shutter	Auto/Manual (1.25 - 1/10000), FLK	
R/N Ratio	≥ 50db (AGC OFF)	
Video Output	1CH 1.0V p-p complex video output	
Output Model	PAL/NTSC adjustable	

COMPLIANCE

FCC PART 15

The equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. Any change or modification must be approved in writing by Uniden.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement. Tout changement ou modification doit être approuvé par écrit par Uniden.

Avis de conformité à la FCC : Ce dispositif a été testé et s'avère conforme à l'article 15 des règlements de la Commission fédérale des communications (FCC). Ce dispositif est soumis aux conditions suivantes: 1) Ce dispositif ne doit pas causer d'interférences nuisibles et; 2) Il doit pouvoir supporter les parasites qu'il reçoit, incluant les parasites pouvant nuire à son fonctionnement.

In order to comply with FCC RF Exposure requirements, this device must be installed to provide at least 7.9 in (20 cm) separation from the human body at all times.

IC

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes CNR d'Industrie Canada destinés aux appareils radio exempts de licence. Son fonctionnement est soumis aux deux conditions suivantes :

- 1) Cet appareil ne doit pas causer d'interférences nuisibles et;
- 2) Il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

In order to comply with FCC/ISED RF Exposure requirements, this device must be installed to provide at least 7.9 in. (20 cm) separation from the human body at all times.

Afin de se conformer aux exigences d'exposition RF FCC/ISED, ce dispositif doit être installé pour assurer une séparation d'au moins 20 cm du corps humain à tout moment.

THREE-YEAR LIMITED WARRANTY

Important: SAVE YOUR RECEIPT! Evidence of original purchase is required for warranty service.

WARRANTOR: Uniden America Corporation ("Uniden") ELEMENTS OF WARRANTY: Uniden warrants, for three years, to the original retail owner, this Uniden Product to be free from defects in materials & craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate & be of no further effect 36 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will either, at its option, repair or replace the defective unit & return it to you without charge for parts, service, or any other cost (except shipping & handling) incurred by warrantor or its representatives in connection with the performance of this warranty. Warrantor, at its option, may replace the unit with a new or refurbished unit.

THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE & ENTIRE WARRANTY PERTAINING TO THE PRODUCT & IS IN LIEU OF & EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, & you may also have other rights which vary from state to state. This warranty is void outside the United States of America & Canada.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts & accessories originally packaged with the Product. Include evidence of original purchase & a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantor at:

Uniden America Service
C/O Saddle Creek
743 Henrietta Creek Rd., Suite 100
Roanoke, TX 76026