

**SONY®**



# ***XCI-NPR Camera***

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## **Operating Manual**

Before operating the unit, please read this manual thoroughly and retain it for future reference.

# WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE DURING INSTALLATION.

TO AVOID ELECTRICAL SHOCK, DO NOT OPEN ANY INTERNAL DEVICE AND CABINET INSIDE THE HOUSING OF THE CAMERA. REFER SERVICE TO QUALIFIED PERSONNEL ONLY.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USERS AUTHORITY TO OPERATE THE EQUIPMENT.

CAUTION: USE THE POWER SOURCE DESCRIBED IN THIS MANUAL.

CAUTION: FOR SAFETY REASONS DO NOT CONNECT THE CONNECTOR FOR PERIPHERAL DEVICE WIRING THAT MIGHT HAVE EXCESSIVE VOLTAGE TO THIS PORT. FOLLOW THE INSTRUCTIONS FOR THIS PORT.



This mark applies in EU countries only

## WARNING

This unit has no power switch.

When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power cord to socket-outlet which must be provided near the unit and easily accessible.

If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power cord.

## CE COMPLIANCE STATEMENT

WARNING: THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

CAUTION: BEFORE ATTEMPTING TO CONNECT OR OPERATE THIS PRODUCT, PLEASE READ THE LABEL ON THE BOTTOM AND USER'S MANUAL CAREFULLY.

CAUTION FOR LAN PORT: FOR SAFETY REASON, DO NOT CONNECT THE LAN PORT TO ANY NETWORK DEVICES THAT MIGHT HAVE EXCESSIVE VOLTAGE.

CAUTION: DURING THE PRODUCT INSTALLATION, A DEVICE OUTAGE MUST BE USED.

CAUTION: FUSE ON THE ELECTRICAL INSTALLATION MUST BE 16A OR LESS.

CAUTION: AN OVERCURRENT PROTECTION DEVICE SHOULD BE USED TO AVOID DAMAGE RISK FOR THE PRODUCT.

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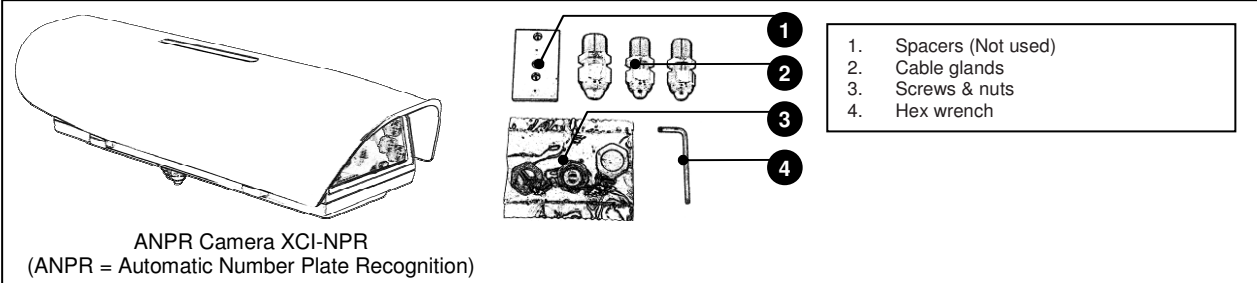
## Safety Instructions

- Refer all work related to the installation of this product to qualified service personnel or system installers.
- Do not attempt to disassemble the camera. There are no user serviceable parts inside. Contact qualified service personnel for maintenance.
- Handle the camera with care. Do not strike or shake, as this may cause permanent damage. It should be protected against extreme pressure, vibration and humidity during transportation and storage. Damages caused by improper transportation void the warranty.
- During product setup, do not expose the product to water or moisture, and do not try to operate it in wet areas. Take immediate action when the product becomes wet. Turn off the power and refer servicing to qualified service personnel. Moisture may damage the device and cause electric shock.
- Do not shoot images that are extremely bright (e.g. light sources, the sun, etc.) or long periods of time
- Use an appropriate power supply. Do not apply excessive voltage, use only specified voltages. Otherwise, you may get an electrical shock or a fire may occur.
- Connect the unit to a power supply corresponding to the one indicated on the rating.
- The outlet must be adequately earthed according to the regulation in force.
- Before moving or carrying out technical operations on the unit, isolate and disconnect it from the power supply.
- Do not use worn or damaged power cords, since they represent a serious risk for the user's safety.
- The installation of the unit must be carried out by adequately skilled technical personnel.
- Do use the device in areas containing inflammable substances.
- Make sure that the unit is mounted securely using fixings adequate for the weight and the mounting surface.
- The unit is considered switched off only when the power supply is isolated and the connecting cables to the unit are disconnected from the supply.
- Keep this manual safe for future reference.

## Highlights

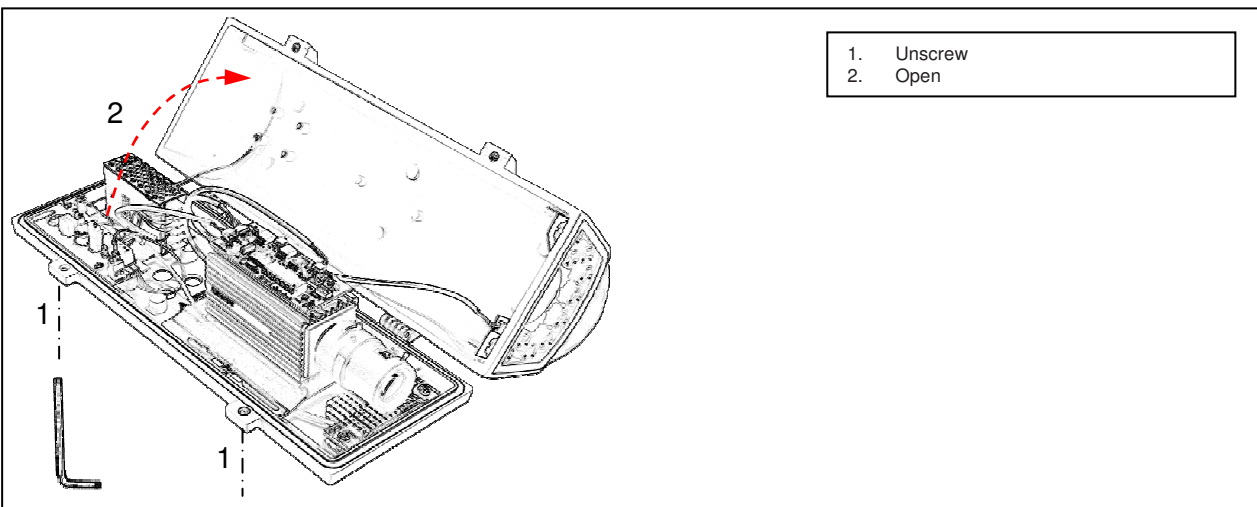
- 115 VAC to 240 VAC power supply
- Wiegand 26 and 37 bits interface
- RS 232 interface
- Ethernet interface for camera setup (web managed)
- Die-cast aluminium and ABS IP66 housing

## Unpacking

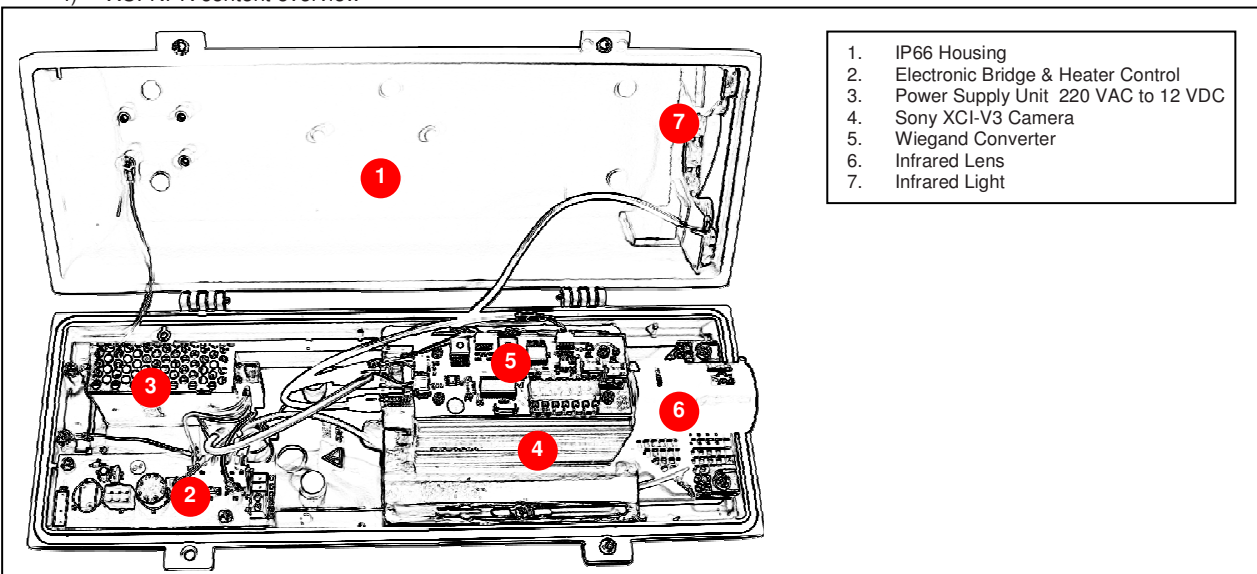


## Installation

- 1) Fix the wall mount bracket on the wall (contact your distributor for the selection of the wall mount bracket)
- 2) Fix the Camera to the wall mount bracket
- 3) Open the Housing with the Hex Wrench:



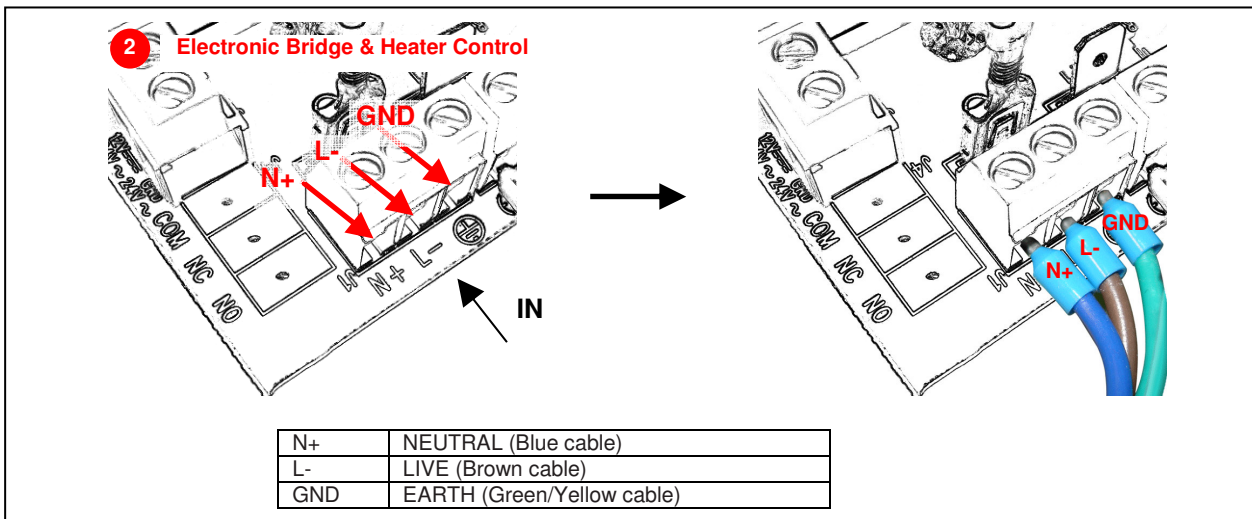
- 4) XCI-NPR content overview



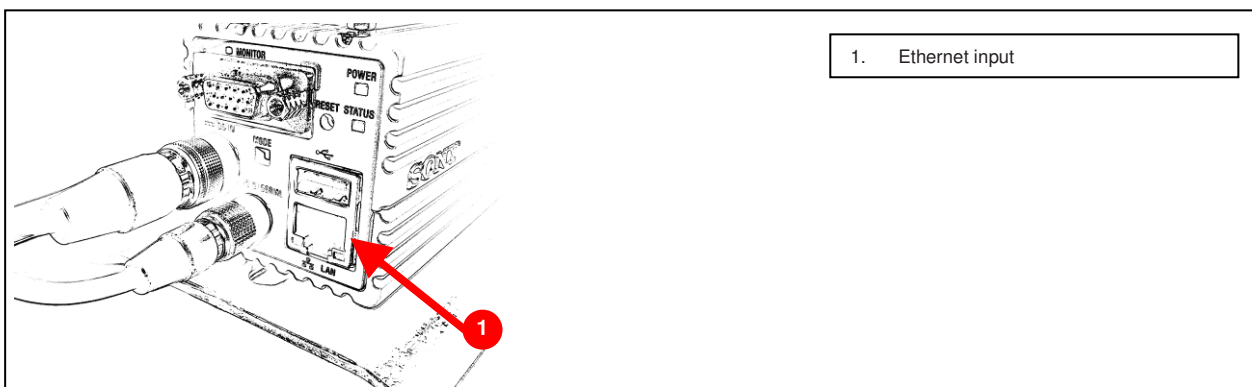
- 5) **CAUTION – RISK OF ELECTRIC SHOCK. Remember to work with mains power disconnected.** Connect the Power supply cable and the network cables as described in the section 4. *Connection & cabling*

## Connection & Cabling

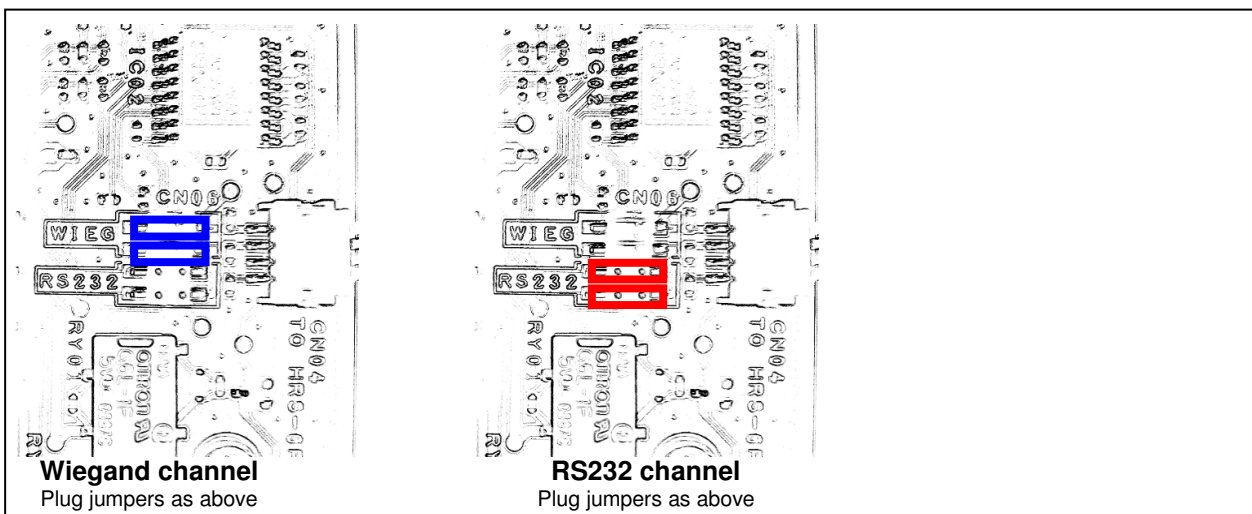
- 1) The 3 cable glands (supplied) must be used to ensure housing integrity and compliance to IP66.
- 2) **CAUTION: SWITCH OFF THE 220 VAC POWER LINE**
- 3) Pass the power cable through the cable gland
- 4) Plug and screw the power cable (NEUTRAL, LIVE and EARTH) as below :



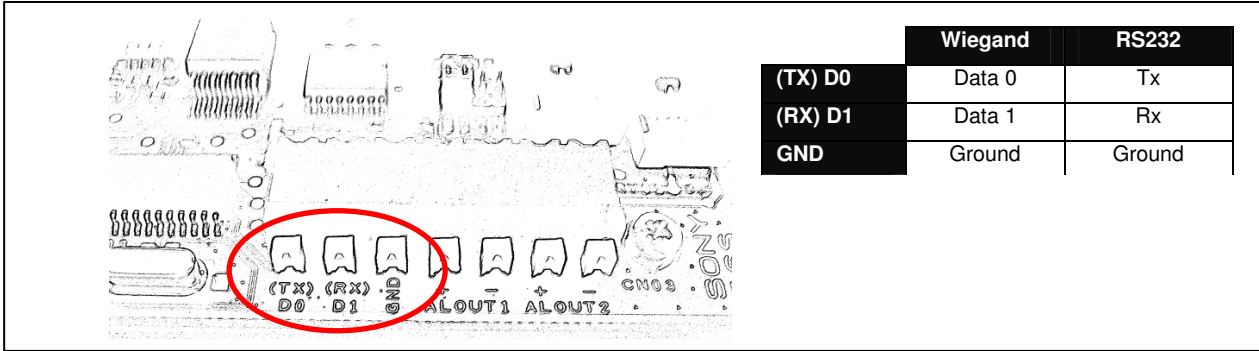
- 5) Plug the Network cable (CAT5) as shown below, to setup the camera:



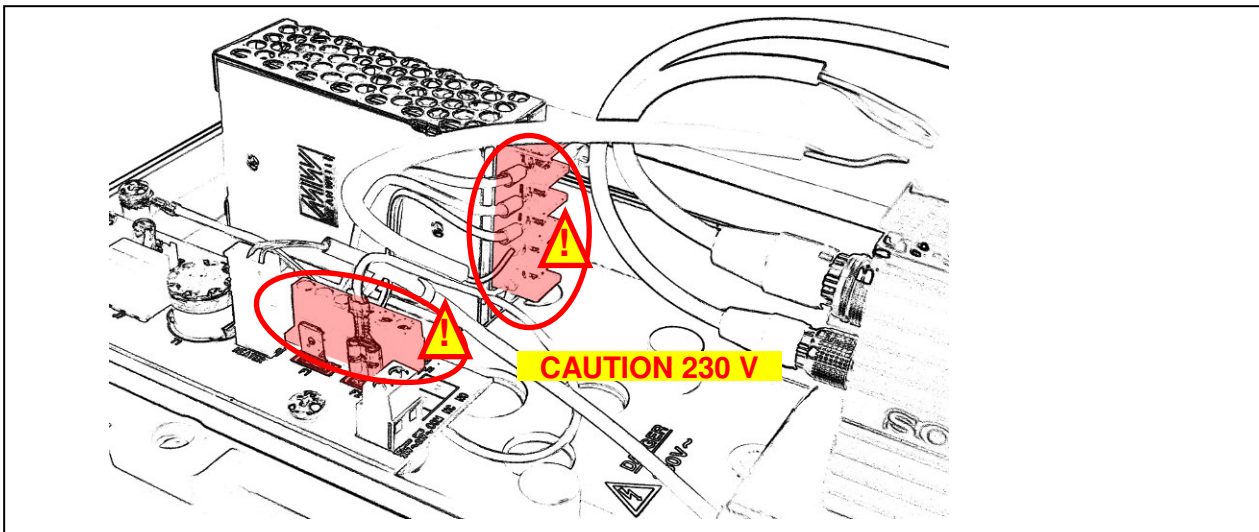
- 6) Plug the Network cable (CAT5) to your laptop. In case of direct connection from the camera to the laptop, use a cross cable.  
*NB: No need to pass the network cable through the cable gland if the network is only used to setup the camera.*
- 7) Select either Wiegand or RS232 on the **5 Wiegand Converter** as below:



- 8) On the **5 Wiegand Converter** plug the cable in the tree connector on the left as shown below, and pass it through the cable gland



- 9) Power can now be connected. **CAUTION RISK OF ELECTRIC SHOCK** – Please observe caution as shown in the areas below when handling the product.



# Specifications

Technical Features	
<b>Camera Features</b>	
Image device	1/3-type progressive scan IT monochrome CCD
Effective resolution (H x V)	640 x 480 (VGA)
Cell size (H x V)	7.4 x 7.4 $\mu\text{m}$
Frame rate	60 fps (VGA)
Electronic shutter	1/250 s to 1/4000 s
<b>Processor</b>	
CPU	X86, AMD Geode GX533, 400MHz
Operating System	Monta Vista Linux Professional edition 3.0
<b>Interfaces</b>	
Wiegand	26 bits, 37 bits
Serial interface	RS-232C
Ethernet	100Base-TX/10Base-T (Network protocols: TCP/IP (IPv4), HTTP, FTP)
Monitor output	D-sub 15pin for multi scan monitor
USB	Version 1.1
Digital I/Os	2 programmable relays
<b>Power requirements</b>	
Voltage range	115/230 VAC
Protection Overload (Power Supply Unit)	110 ~180% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
AC Current (Typ.)	0.6A/230 VAC 1.1A/115 VAC
Power consumption	Typical: 7,5W Maximal (including heater): 58W
<b>General</b>	
Range	4 to 16m
Infrared Lens	C-mount; Manual Zoom/Iris/Focus; 10-40mm
Infrared Light	850 nm
Minimum illumination	1 lx (F1.4, +18 dB gain)
Operating temperature	-20 to +50 °C (-4 to +122 °F)
Storage temperature	-30 to +60 °C (-22 to +140 °F)
Operating humidity	20 to 80% non condensing
Storage humidity	20 to 95% non condensing
Weight	3.2 kg (3.65 kg with sunshield)
Dimensions (W x H x D)	163 x 115 x 412 mm
Dimensions with sunshield	176 x 131 x 514 mm
Regulation	EMC EN61000-1, EN61000-3
<b>Housing</b>	
IP66 according to EN 60529 with cable glands	
Die-cast aluminium	
Sunshield in ABS	
Epoxypolyester powder painted colour RAL9002	
Stainless steel external screws	
3 removable cable glands: 2xPG9 and 1xPG11	
Heater Ton 15°C +/- 3°C (59°F +/- 5°F) Toff 22°C +/- 3°C (71°F +/- 5°F), consumption 40W max	
<b>Software Features</b>	
Country	11countries (refer to Technical Manual for list of supported countries)
Setup	Web managed (login and password protection)
ANPR Software	Proprietary Number Plate Recognition Software
Analysis	Optimal technology combining the 3 analysis methods: Statistical, Neuronal, Optical
Bad/Dirty Licence Plate	Programmable unique identifier sent when bad licence plate is detected
Speed	Low speed vehicles (Access Control design) – up to 15 km/h (6fps) refer to Technical Manual
Interfaces	SDK for Easy CCTV integration SDK for Easy Access Control Integration
Data transmission	Ethernet (10/100 MB/s), Wiegand 26 and 37 bits, RS232
Scheduler	Programmable scheduler
Images	640 x 480 JPG image available through TCP/IP