

in4xS1P1L / in4xS1N1L series

Micro Vandal Dome

Quick Start Guide



Thank you for buying this product. Before operating this product, please read this quick-start guide and accompanying mounting instructions to ensure proper use. Please store these instructions a safe place for future reference.

FEATURES

1. 1/3" Pixim Digital Pixel System WDR sensor and DSP
2. Resolution 690 HTVLe & High Resolution Lens options
3. Sensitivity <0.45 Lux (F2.5, 50IRE, 30fps, 2850°K. Colour)
4. IP65, Vandal and Tamper Resistant Aluminium Case.
5. Programmable OSD via optional "up the coax" controller
6. Selectable Progressive Scan

PRECAUTIONS

1. Before installing and operating the unit, please read this manual **and** the mounting guide carefully.
2. Precision components are contained in this camera, please avoid violent vibrations during installation and maintenance. Do not connect the power until you have completed the installation.
3. Please obey all local electrical wiring regulations when using this unit.
4. Do not use abrasive or corrosive materials for cleaning. Use only a soft cloth for cleaning.
5. To prevent damage to the lens or sensor, do not point the camera directly into the sun or very strong light sources.
6. Do not use the camera outside it's working temperature (-10°C~ 50°C / 14°F ~22°F) or humidity (<95%) ranges.
7. Ensure that the power supply meets the current requirements of the camera and that the supply voltage is inside the tolerances of the camera: 12VDC ±10%
8. Ensure that any screws and fixings used are adequate to support the load of camera.
9. In case of camera failure, do not attempt to dismantle or service the camera yourself. Please refer to qualified service personnel for repair of the camera.

CONNECTIONS

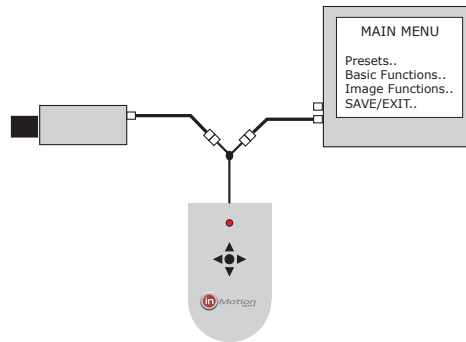
Connections for video and power are made to the flying lead from at the rear of the camera. Two connectors are provided:

1. Video output connector, 75Ω BNC socket. Connect a male BNC connector to a Monitor, DVR or UTC programmer to this socket.
2. Power Input connector. This is a 2.1mm DC jack. Observe polarity of 12VDC connections. The centre conductor is +12VDC ±10% and outer is ground. Refer to the adjacent diagram for clarification.



OSD ACCESS

The camera is supplied in a general configuration that will suit the majority of installation requirements. Should advanced configuration be required, the optional UTC (up the coax) Programmer may be connected to the camera to access the camera On Screen Display (OSD) for user programming.



Connect the Video-In connector of the UTC controller to the Video-Out connector of the camera. Connect the Video-Out of the UTC controller to a display monitor. To activate the camera OSD, depress the joystick button on the UTC Controller for 2 seconds (operation is confirmed when LED is latched on).

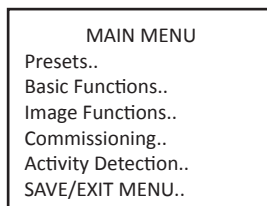
Push the joystick ▲▼ to select a menu from the list.

Push the joystick ◀▶ to change the selected value.

Press the joystick button to call the sub-menu or execute a command.

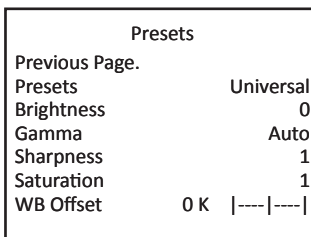
To return from a sub-menu to the previous menu, select "Previous Page" and press the joystick button.

OSD MAIN MENU



When the OSD menu is launched, you are presented with the adjacent opening screen. A ".." after an option indicates the presence a sub-menu.

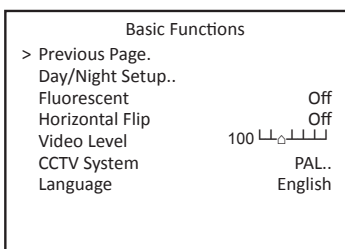
PRESETS MENU



The presets provide you with basic configurations for most applications. These can then be tailored for individual site requirements.

- **Universal:** This is the default preset that gives good all round performance and will suit most installations.
- **Details 1 / Details 2:** Use this setting for high-contrast scenes where there is no specific focus on lighter or darker areas.
- **Indoor/ Shadow:** Indoor scenes full of contrast with strong backlights. Details are displayed from the shadows.
- **Indoor:** Indoor scenes full of contrast with medium backlights, details are displayed in high resolution.
- **Low Light:** Preset for low light scenes with slowly moving objects. The slow shutter operates between x2 and x16.
- **Brightness:** Adjusts the image brightness
- **Gamma:** Adjusts the contrast of the video signal to compensate for displays with a nonlinear response.
- **Sharpness:** Affects the fine detail of the image. Note this setting is automatically reduced in low light to reduce the visibility of noise in the image.
- **Saturation:** Adjusts to the colour content of the image. Saturation is decreased under high AGC levels to reduce colour noise.
- **WB Offset:** this modifies AWB performance in images with minimal colour content, to compensate for unsatisfactory colour metering.

BASIC FUNCTIONS MENU



- **Day/Night Setup:**
 - **Night control:** Auto, selects Night mode in low light; Color, disables night mode; Mono, forces night mode
 - **Night Mode:** Defines if burst is present in mono
 - **Night Max Gain:** Defines Max AGC gain in mono
- **Fluorescent:** Off, CRR reduces color roll under fluorescent lighting
- **Horizontal Flip:** Mirror the image horizontally
- **Video Level:** Sets the video output level. This is factory set and should not need adjustment.
- **CCTV System:** Changes the TV Standard. Default is set according to shipping region
- **Language:** Options are English, Chinese & Spanish. The defaults are set by the shipping region.

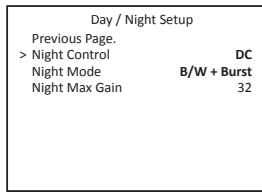
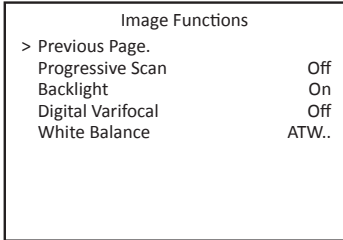
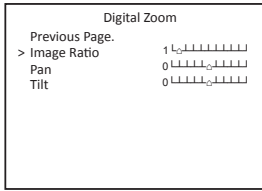


IMAGE FUNCTIONS MENU

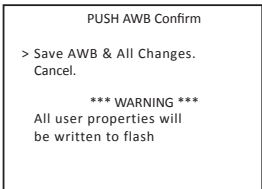


- **Progressive Scan:** Off, image is captured as two fields. On, image is captured as a single frame and transmitted as two fields.
- **Backlight:** On, camera is configured to against silhouetting effects of strong backlighting of a subject
- **Digital Varifocal:** Default is off. Set to on and Digital Zoom Sub-Menu is available when joystick is depressed.
 - **Image Ratio:** up to 2x image ratio is available
 - **Pan & Tilt:** When Zoom >1 it is possible to pan and tilt around the image. 0 indicates the central point of the image.

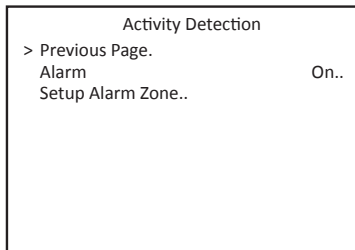
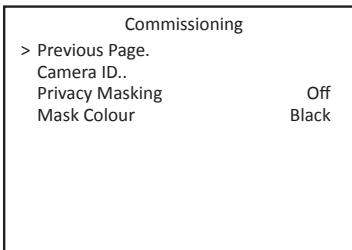


Note: Enabling zoom will disable Backlight feature.

- **White Balance:** Configures the operational white balance mode of the camera.
 - **ATW (default):** Auto Tracking White Balance - camera automatically adjusts for correct white balance.
 - **Push AWB:** Use this to fix white balance in difficult lighting conditions, hold a white card in front of the camera, with light falling on it and press the joystick to fix the white balance.
 - **Manual:** Use this to manually fix the white balance. Setting is given in °Kelvin

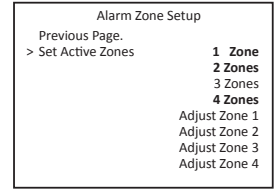
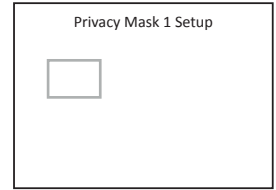
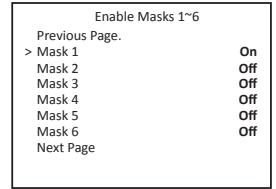


COMMISSIONING & ACTIVITY MENUS

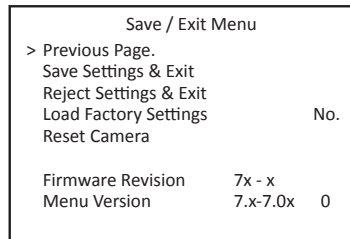


- **Camera ID:** Assign a name to the camera, maximum 8 characters. Press joystick for character entry. ◀▶ Selects character. Press joystick to accept and move to next character. ▲▼ Escapes back to menu.
- **ID Position:** Selects one of 6 preset positions for camera title. Upper screen left, centre or right, lower screen, left, centre or right.
- **ID Display:** Sets title display On or Off

- **Privacy Masking:** Enables up to 12 Privacy masks to obscure areas of the image. Turning a zone on reveals its configuration screen. Press the joystick to cycle through the zone options.
 - **Mask Color:** Black, White Red, sets the color of any enabled privacy masks.
 - **Alarm:** Enabling activity detection displays an on screen indication when motion is detected in any of the 4 zones.
 - **On:** Enables activity detection. Pressing the joystick reveals the activity threshold, and adjusts the overall sensitivity.
 - **Setup Alarm Zone:** Set Active Zones enables the individual active alarm zones. Adjust Zone configures the size & position of each zone. The same method is used to configure the size and position of the Activity Zones as Privacy Masking Zones.



SAVE / EXIT MENU



- **Save / Reject Settings & Exit:** Reject or Save any changes made to the menus since the last Save. **Note** Be sure to select Save to ensure any changes made are written to the flash memory, other wise the settings will not loaded on the next reboot of the camera.
- **Load Factory Settings:** Restores all menu settings to the factory defaults
- **Reset:** Performs a software reset (reboot) of the camera
- **Menu / Firmware Version:** Shows the firmware versions of the camera.

SPECIFICATIONS

Model	in40S1P1Lxx / in40S1N1Lxx	in41S1P1Lxx / in41S1N1Lxx
Image Sensor	1/2" DPS M8800	
Signal System	PAL / NTSC	
Effective Pixels	758 x 540 pixels	
Resolution	690 HTVLe	
Min. Illumination (Sensor)	0.1Lux (F1.2, 50IRE, 30fps, 2850°K, Colour)	
S/N Ratio	50dB	
White Balance	Auto, 2000°K~11000°K	
Dynamic Range	120dB Max, 101dB Typical	
Shutter	1/50 ~ 1/100000 PAL (1/60 ~ 1/100000 NTSC)	
Video Output	1.0V p-p, 75Ω	
Power Supply	12VDC ±10%	
Power Consumption	1.7W	1.7W
Dimensions	92.7mm Ø x 70.1mm H	94mm Ø x 64.2mm H
Weight	375g	340g
Operating Temp	-10°C~50°C	
Operating Humidity	90% non-condensing	
Integrity	IP65	IP65 (Ceiling mount)
Lens options	2.9mm F2.0, 3.8mm F2.0, 6.0mm F2.5, 8.0mm F2.0, 12mm F2.0	