



# DAY&NIGHT CAMERA TVT35DN

## Instruction's manual (ref. Mi 3140)

Read before installing and keep for  
future reference

### Installation precautions

To avoid the risk of fire or electric shock, not expose the camera to rain and to humidity.

### Safety information

The product is tested to be in accordance with the rules for the marking



These limits are to guarantee a reasonable protection against interference when the device is functioning in commercial environments. The unit generates and uses energy at radio frequencies and, if not correctly installed and used could generate interference. In case of interference emission during the functioning in commercial environment could be required to correct the problem by the user self. Any modify, not expressly approved by the manufacturer, or by an unauthorised person could avoid the using right.

### CAUTION:

To prevent the risk of fire or electrical shock:

- Never use power supply different from how specified.
- Never expose the unit to rain or humidity.
- Not install in extreme temperature condition.
- Use the camera within the following limits: -10°C ÷ 50°C. Take particular care to the aeration in case of high temperature.

Not install in not stable illumination condition:

- Sudden changes could bring to not correct functioning. Never attempt to open the back cover of the camera:

- There are not user's service parts.

Not install in environment with high humidity, or close to gas or oil loosens because these could provoke not correct functioning or damage to the sensor.

Never expose to the rain or other liquid:

- In case of contact with any liquid dry it immediately. The liquids could contain dangerous minerals that bring to rust.

Avoid any collision or high vibration:

- These could result dangerous.

Never target the direct sun light:

- This could damage the image CCD sensor.

Never touch the frontal part of the camera:

- This is the most important part of the camera, carefully handle it, and do not leave fingerprints on it.

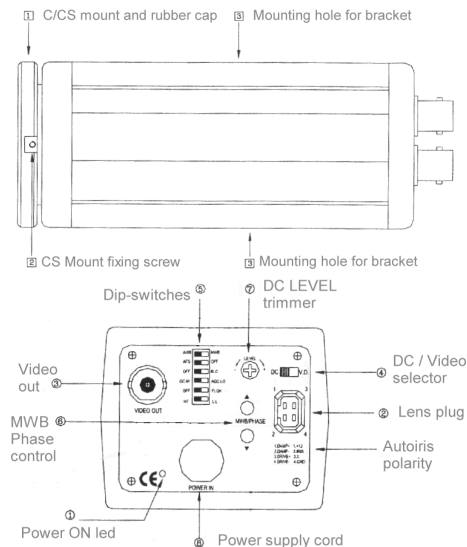
### NOTES:

- If the camera is left directly to the sun light, could be spot or image deformations on the image itself.
- Control carefully that the power supply is correct to the specified value.
- The camera is set to obtain the best image and better performances, never remove the cover, if not strictly needed, because this could cause serious damage to the inner components.
- Always unplug the power before remove the cover.
- In case of malfunctioning contact the dealer.
- When the camera is not used, leave the rubber cap on the front in order to protect the image sensor..

### FEATURES

- Colour camera Day&Night with 1/3" SONY CCD Super HAD in metal case.
- Digital Signal Processor (DSP).
- Number of pixel: PAL = 320.000.
- High sensitivity, high S/N ratio, high resistance against spots and blooming effect.
- Supported images: Automatic Electronic Shutter (AES), Auto iris (AI), Automatic Gain Control (AGC), Automatic White Balance (AWB), Manual White Balance (MWB), Back Light Compensation (BLC), Flickerless (FL), LineLock function.
- Autoiris drive DC and Video.
- C/CS mount for the lenses.
- IR filter and anti-aliasing.

### NAME AND DESCRIPTION OF THE PARTS



### FUNCTIONING

1. Remove the rubber cap on front.
2. In case of CS lens, remove the C mount ring provided.
3. Screw the lens turning clockwise.
4. Connect the video output ③ to the monitor or to another device using a 75Ω coaxial cable.
5. Connect the power supply using the plug provided.
6. Once the image is displayed to the monitor, adjust the focus regulation until reach the best the image.
7. In case of difficulty to reach the correct image, adjust the back focus as described:
  - 7.1. Turn the focus control to infinity;
  - 7.2. Aim the camera to an object distant over 20m;
  - 7.3. Using the screwdriver, loosen the screw ② on the bottom of the camera;
  - 7.4. Turn carefully the lens and the relative mount until the object is correctly displayed.
  - 7.5. Turn the screw again with the serwdriver.
8. Mount the camera to the bracket using the adapter and the hole on the body of the camera itself.
9. Dip-switch regulation:
  - 9.1. AWB: the White Balance is automatically controlled. The colour temperature is within the range 2500K and 9500K. MWB: in this mode is possible to use the MWB/PHASE ⑥ (up/down) buttons and manually adjust the colour temperature form 2500K to 9500K.
  - 9.2. Autoiris function: Using autoiris lenses the AES switch should be in the OFF position to disable the electronic shutter. Before insert the lens plug in the relative socket ②, control that the DC/VIDEO selector is correctly chosen and the

polarity of the connector is the same described.

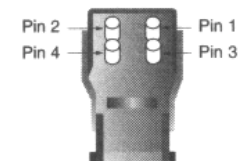
Using DC (without drive) lenses put the ④ switch to DC and eventually, adjust the DC LEVEL trimmer ⑦, until obtain the best image in every illumination situation.

Using VIDEO (with drive) lenses, put the switch ④ on VIDEO and mount the plug as described.

- 9.3. BLC: Adjust the BLC control to compensate Back Light.
- 9.4. AGC-Hi/AGC-Lo: This switch allows to choose the maximum gain value: AGC-Hi = 26dB AGC-Lo = 16dB
- 9.5. Flickerless: This switch enables the Flickerless function to avoid the flicker (in this mode the AES function is automatically disabled).
- 9.6. LineLock: Is it possible to synchronise the video signal with internal sync (INT) generator or with the mains (L.L.): in this case it could be necessary to adjust the phase of the signal with the MWB/PHASE ⑥ button. In this case is necessary that the AWB/MWB is on AWB position.

### AUTOIRIS VIDEO LENSES

Connector numeration and functions (from connection side):



<b>PIN</b>	<b>VIDEO</b>	<b>DC</b>
1	+12Vdc	DAMP -
2	Video out	DAMP +
3	N.C.	Control +
4	GND	Control -

## TECHNICAL SPECIFICATIONS

<b>Model</b>	<b>TVT35DN</b>
<b>CCD</b>	SONY SUPER HAD 1/3"
<b>Pixel (HxV)</b>	500x582
<b>Horizontal resolution</b>	380 TV lines
<b>Minimum illumination</b>	0.1lux at F1.2
<b>B/W switch</b>	Automatic under 3 lux
<b>S/N</b>	>48dB
<b>Electronic shutter</b>	1/50sec ~ 1/100.000sec ON/OFF
<b>Flickerless</b>	1/100sec ON/OFF
<b>Autoiris</b>	DC or VIDEO
<b>Gamma</b>	0.45
<b>Lens mount</b>	C/CS
<b>AGC</b>	High / Low
<b>AWB</b>	Automatic / Manual (2500K ~ 9500K)
<b>BLC</b>	ON/OFF
<b>Sync,</b>	Internal / L.L.
<b>Video output</b>	Composite 1Vpp - 75Ω
<b>Power supply</b>	230Vca
<b>Current consumption</b>	4W
<b>Operation temperature</b>	-10 °C ~ +50 °C

### OPERATION NOTICE:

This camera is equipped with a specifically designed colour CCD sensor that provides also B/W images in low light conditions. The CCD sensor is also sensitive to IR light as a standard Black and White camera.

This particular functioning, in strong day light conditions, can bring to a slight colour shift respect to the originals. This colour shift is not a defect but corresponds to the normal working of the day&night camera.

The above specifications are subject to changes without any further notice.

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