

## 12 Specifications

### 12.1 CATVision

#### Video

- Resolution: max 1920 x 1440 pixels (depending on cable and video signal)
- Transmitting distance: 10 to 300 m (max value, depending on resolution, cable and video signal)
- Transmittable signals: RGBHV, RGsB or RsGsBs

#### Keyboard / Mouse

(ON COMPUTER + USER SIDE)

- Port/Transmission: USB, PS/2 / serial Mouse / Intelli-Mouse,  
via adaptor: Sun, MAC  
**Mixed operation possible**

#### RS232 (optional)

- Transmission rate: up to 100 meter: max 57600 bits/sec  
up to 200 meter: max 38400 bits/sec
- Transmittable signals: TxD, RxD, RTS, CTS, DTR, DSR

#### Audio (optional)

- Resolution: 18 Bit digital
- Scan rate: 48 kHz
- Band width: 22 kHz
- Microphone preamplification: 20dB

#### USB 1.1 (optional)

- Transmitting distance: 200 meter
- Support: High power devices (up to 500 mA)
- Transmission rate: up to 12 Mbits/s

**Transmitting cable:** CAT-x cable or higher (x = 5, 6, 7)

#### **Size:**

(W x H x D in mm)

CATVision-CPU  
210 x 44 x 210 (19" / 1 unit)

CATVision-CON  
210 x 44 x 210 (19" / 1 unit)

**Weight:****CATVision-CPU**

without USB 1,20 kg  
with USB 1,28 kg

**CATVision-CON**

without USB 1,10 kg  
with USB 1,18 kg

**Power supply:**

- Main: 100 – 240 V primary  
50 – 60 Hz
- Redundant: DC 12V  
5 A

**Current consumption (max. values):**

|               | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|---------------|------------------------|------------------------|-----------------------|
| CATVision-CPU | 140 mA                 | 82 mA                  | 600 mA                |
| CATVision-CON | 240 mA                 | 100 mA                 | 900 mA                |

**Power consumption (max. values):**

|               | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|---------------|------------------------|------------------------|-----------------------|
| CATVision-CPU | 9,08 W                 | 9,78 W                 | 7,2 W                 |
| CATVision-CON | 11,38 W                | 11,46 W                | 9,96 W                |

**Heat dissipation (max. values):**

|               | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|---------------|------------------------|------------------------|-----------------------|
| CATVision-CPU | 9,08 W                 | 9,78 W                 | 7,2 W                 |
| CATVision-CON | 11,38 W                | 11,46 W                | 9,96 W                |

**Temperature range:**

Operation: 5 to 40° C  
rel. air moisture < 80%, non precipitate

Storage: - 10 to 55°C, < 85 % Air moisture

## 12.2 CATVision-MC

### Video

- Resolution: max 1920 x 1440 pixels (depending on cable and video signal)
- Transmitting distance: 10 to 300 m (max value, depending on resolution, cable and video signal)
- Transmittable signals: RGBHV, RGsB or RsGsBs

### Keyboard / Mouse

(ON COMPUTER + USER SIDE)

- Port/Transmission: USB, PS/2 / serial Mouse / Intelli-Mouse, via adaptor: Sun, MAC  
**Mixed operation possible**

### RS232 (optional)

- Transmission rate: up to 100 meter: max 57600 bits/sec  
up to 200 meter: max 38400 bits/sec
- Transmittable signals: TxD, RxD, RTS, CTS, DTR, DSR

### Audio (optional)

- Resolution: 18 Bit digital
- Scan rate: 48 kHz
- Band width: 22 kHz
- Microphone preamplification: 20dB

### USB 1.1 (optional)

- Transmitting distance: 200 meter
- Support: High power devices (up to 500 mA)
- Transmission rate: up to 12 Mbits/s

**Transmitting cable:** CAT-x cable or higher (x = 5, 6, 7)

### **Size:**

(W x H x D in mm)

CATVision-MC 2 (3,4)-CPU; CATVision-MC 3 (4)-CON  
Twin CATVision-MC 2-CPU  
435 x 44 x 210 (19" / 1 unit)  
  
CATVision-MC2-CON  
210 x 44 x 210 (19" / 1 unit)

**Weight:****CATVision-MC2-CPU**

without USB 1,90 kg  
with USB 1,98 kg

**CATVision-MC3-CPU**

without USB 2,10 kg  
with USB 2,18 kg

**CATVision-MC4-CPU**

without USB 2,15 kg  
with USB 2,23 kg

**CATVision-MC2-CON**

without USB 1,35 kg  
with USB 1,43 kg

**CATVision-MC3-CON**

without USB 2,00 kg  
with USB 2,08 kg

**CATVision-MC4-CON**

without USB 2,00 kg  
with USB 2,08 kg

**Power supply:**

- Main: 100 – 240 V primary  
50 – 60 Hz
- Redundant: DC 12V  
5 A

**Current consumption (max. values):**

|                  | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|------------------|------------------------|------------------------|-----------------------|
| CATVision-MC-CPU | 410 mA                 | 200 mA                 | 2 A                   |
| CATVision-MC-CON | 310 mA                 | 160 mA                 | 1,5 A                 |

**Power consumption (max. values):**

|                  | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|------------------|------------------------|------------------------|-----------------------|
| CATVision-MC-CPU | 26,0 W                 | 26,51 W                | 21,24 W               |
| CATVision-MC-CON | 19,51 W                | 21,96 W                | 16,56 W               |

**Heat dissipation (max. values):**

|                  | <b>at 100 V (Main)</b> | <b>at 240 V (Main)</b> | <b>at 12 V (red.)</b> |
|------------------|------------------------|------------------------|-----------------------|
| CATVision-MC-CPU | 26,0 W                 | 26,51 W                | 21,24 W               |
| CATVision-MC-CON | 19,51 W                | 21,96 W                | 16,56 W               |

**Temperature range:**

Operation: 5 to 45° C  
rel. air moisture < 80%, non precipitate

Storage: - 10 to 55°C, < 85 % Air moisture

# Technical Data

## General features

| CATVISION-USB 2.0 SERIES             |                              |   |
|--------------------------------------|------------------------------|---|
| <b>Video</b>                         | Signal type:                 | VGA (RGBHV, RGsB, RGBc)   |
|                                      | Video resolution:            | max. 1920 x 1440 @ 75 Hz  |
|                                      | Video bandwidth:             | 250 MHz   |
|                                      | Vertical frequency:          | 50 Hz to 150 Hz   |
|                                      | Horizontal frequency:        | 30 kHz to 135 kHz   |
|                                      | Range:                       | max. 300 meters   |
| <b>USB 2.0</b>                       | Transmission type:           | transparent   |
|                                      | Transmission rate:           | up to 480 Mbit/s  |
|                                      | Supported devices:           | High-Power-Devices (up to 500 mA)   |
|                                      | Range:                       | max. 100 meters   |
| <b>Audio</b><br>▸ purchasable option | Transmission type:           | transparent, bidirectional  |
|                                      | Resolution:                  | 18 bit, digital   |
|                                      | Microphone preamplification: | 20 db   |
|                                      | Sampling rate:               | 48 kHz  |
|                                      | Bandwidth:                   | 22 kHz  |
| <b>RS232</b><br>▸ purchasable option | Transmission type:           | transparent   |
|                                      | Transmitted signals:         | RxD, TxD, RTS, CTS, DTR, DSR  |
|                                      | Transmission rate:           | max. 57.600 bit/s (up to 100 meters);<br>max. 38.400 bit/s (up to 200 meters) |
| <b>Main power supply</b>             | Type:                        | internal power pack   |
|                                      | Connection:                  | IEC plug(IEC-320 C14)   |
|                                      | Voltage:                     | AC 100-240 V/60-50 Hz   |
| <b>Redundant power supply</b>        | Type:                        | eExternal power pack  |
|                                      | Connection:                  | miniDIN-4 Power socket  |
|                                      | Voltage:                     | +12 VDC   |
| <b>Operating environment</b>         | Temperature:                 | +5 to +40 °C  |
|                                      | Air humidity:                | < 80%, non-condensing   |
| <b>Conformity</b>                    |                              | CE, RoHS  |

## Individual features of the modules

| CATVISION-ARU2-CPU   COMPUTER MODULE |  |   |
|--------------------------------------|--|---|
| <b>Interfaces for computer</b>       | Video:<br>▸ via connection cable                   | 1 × D-Sub HD 15 socket  |
|                                      | PS/2 keyboard and mouse:<br>▸ via connection cable | 2 × PS/2 socket   |
|                                      | USB:   | 1 × USB-B socket (keyboard/mouse data)<br>1 × USB-B socket (transparent)                            |
|                                      | Audio:<br>▸ purchasable option                     | 1 × 3,5-mm jack plug (Line In)<br>1 × 3,5-mm jack plug (Line Out)                                   |
|                                      | RS232:<br>▸ purchasable option                     | 1 × D-Sub 9 socket  |
| <b>Interfaces for local console</b>  | Video:   | 1 × D-Sub HD 15 socket  |
|                                      | PS/2 keyboard and mouse:                           | 2 × PS/2 socket   |
| <b>Interfaces to user module</b>     | Mouse/Keyboard data:                               | 1 × RJ45 socket   |
|                                      | USB 2.0 devices:                                   | 1 × RJ45 socket   |
| <b>Casing</b>                        | Material:  | anodised aluminium  |
|                                      | Dimensions (W × H × D):                            | 270 × 44 × 210 mm   |
| CATVISION-ARU2-CON   USER MODULE     |  |   |
| <b>Interfaces for console</b>        | Monitor:   | 1 × D-Sub HD 15 socket  |
|                                      | Keyboard:  | 1 × PS/2 socket<br>1 × USB-A socket   |
|                                      | Mouse:   | 1 × PS/2 socket<br>1 × USB-A socket   |
|                                      | USB 2.0 devices:                                   | 4 × USB-A socket (front panel)  |
|                                      | Audio:<br>▸ purchasable option                     | 1 × 3,5-mm jack plug (Line In)<br>1 × 3,5-mm jack plug (Micro In)<br>1 × 3,5-mm jack plug (Speaker) |
|                                      | RS232:<br>▸ purchasable option                     | 1 × D-Sub 9 plug  |
| <b>Interfaces to computer module</b> | Mouse/Keyboard data:                               | 1 × RJ45 socket   |
|                                      | USB 2.0 devices:                                   | 1 × RJ45 socket   |
| <b>Casing</b>                        | Material:  | anodised aluminium  |
|                                      | Dimensions (W × H × D):                            | 270 × 44 × 210 mm   |

## Current and power consumption

| CURRENT CONSUMPTION      |                 |                            |
|--------------------------|-----------------|----------------------------|
| <b>CATVision-ARU2</b>    | 100 VAC, 60 Hz: | 0,2 A (CPU); 0,5 A (CON)   |
|                          | 240 VAC, 50 Hz: | 0,1 A (CPU); 0,2 A (CON)   |
|                          | 12 VDC:         | 0,7 A (CPU); 1,8 A (CON)   |
| POWER CONSUMPTION (MAX.) |                 |                            |
| <b>CATVision-ARU2</b>    | 100 VAC, 60 Hz: | 10,2 W (CPU); 24,6 W (CON) |
|                          | 240 VAC, 50 Hz: | 10,8 W (CPU); 24,4 W (CON) |
|                          | 12 VDC:         | 07,3 W (CPU); 19,9 W (CON) |