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## Caminax® – Data Sheet

Currently we offer four different versions of our Caminax®. The differences concern mainly the resolution and computing power. One camera is capable of recognizing colors.

### 1. Technical Data, Modules and Functionality

Version	612 S	812 C	632	1032
<b>CCD-Chip</b>	1/3"-Chip grayscale	1/2"-Chip 782 x 582 color	1/3"-Chip grayscale	1/3"-Chip grayscale
<b>Resolution</b>	640 x 480 Pixel	640 x 480 Pixel	640 x 480 Pixel	1024 x 768 Pixel
<b>Processor</b>	1200 MIPS	1200 MIPS	3200 MIPS	3200 MIPS
<b>Image acquisition (Hz)</b>	25 Hz	45 Hz	63 Hz	30 Hz
<b>Digital I/O's</b>	4 IN / 4 OUT	4 IN / 4 OUT	4 IN / 4 OUT	4 IN / 4 OUT
<b>Interface</b>	Keypad + RS232	Keypad + 100 Mbit Ethernet	Keypad + 100 Mbit Ethernet	Keypad + 100 Mbit Ethernet
<b>Video Output</b>	SVGA 800/600	SVGA 800/600	SVGA 800/600	SXGA 1280/1024
<b>Power supply</b>	24 V DC	24 V DC	24 V DC	24 V DC
<b>Extra functionality</b>	Programm execution via RS232	Programm execution via Ethernet Extramodul „Color“	Programm execution via Ethernet	Programm execution via Ethernet
<b>Modules</b>	Image Brightness Area Point Distance Angle* Circle-Edge Straight line*	Tracking Wait* Result		

<b>Functionality</b>	Multi-Window Manager Transfer (Image*, Configuration) Calibration* Statistics (for each Programm) Brightness Tracking Tracking in x,y Digitale Programm execution (max. 14 Programms) Up to 100 prgramms storable, depending on their size Counting edges Counting edges on circle
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\* The functions marked with a star \* are currently implemented. We will soon provide you with a software update via our website.

## 2. Camera Plug Assignment

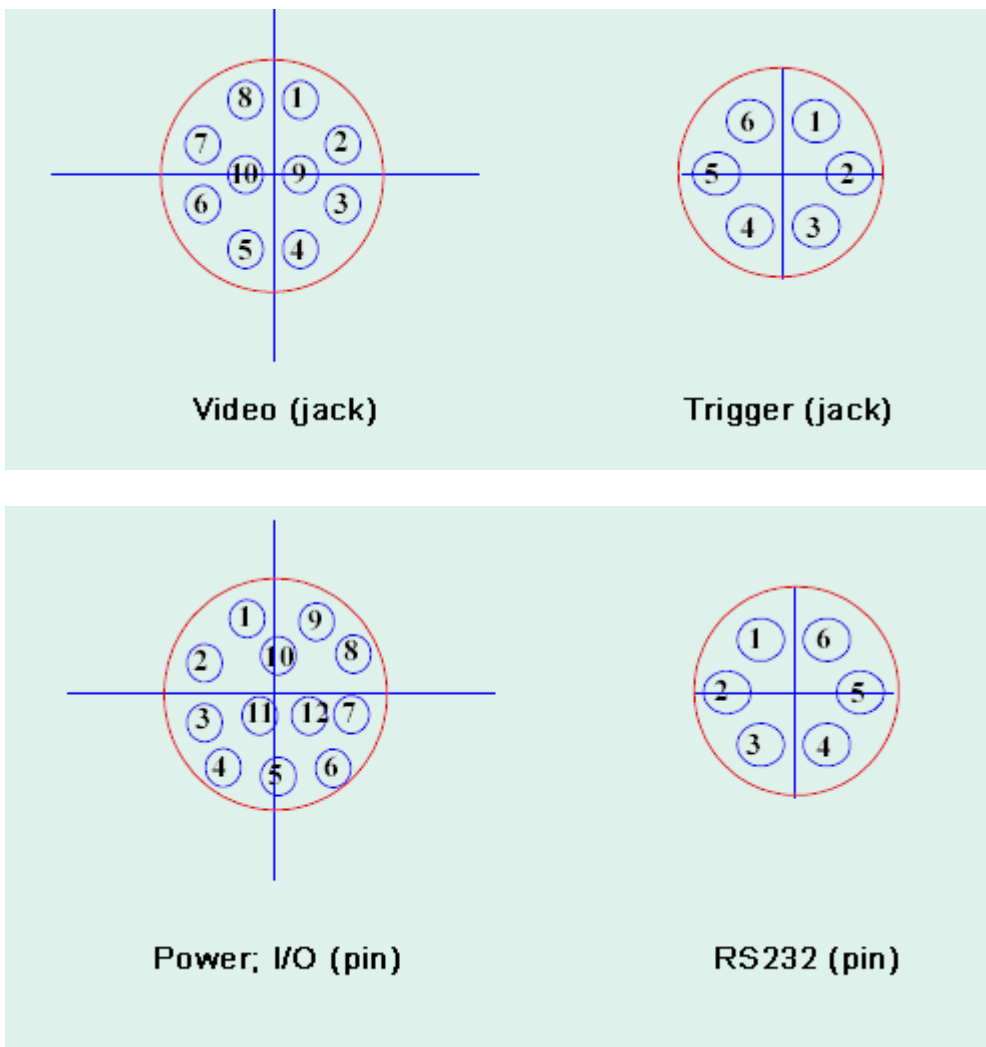
The cameras have four connectors on the rear side:

V24(RS232)	HR10A-7R-6PB	6-pin Hirose plug pin contact
Keypad (Trig.)	HR10A-7R-6SB	6-pin Hirose plug pin contact
SVGA (Video)	HR10A-10R-10SB	10-pin Hirose plug pin contact
Power/SPS (I/O)	HR10A-10R-12SPB	12-pin Hirose plug pin contact

Pin Assignment Trigger/Keypad Plug Signal		Pin Assignment for the I/O Plug /SPS	
Signal	Pin	Signal	Pin
GND	3	OUT0	8
5V OUT	2	OUT1	7
(Trigger IN -)	1	OUT2	6
(Trigger IN +)	6	OUT3	5
(Trigger OUT)	5	IN0	12
Keypad IN	4	IN1	4
		IN2	11
		IN3	10
		24V IN/Cam	2
		GND IN (common)	3
		24V IN/PLC	1
		24V IN/PLC	9

Pin Assignment for LAN/Ethernet		Pin Assignment for XGA/SVGA Video Output	
Signal	Pin	Signal	Pin
R+	6	R Out	4
T+	2	R GND	3
R-	5	G Out	2
T-	1	G GND	1
NC	3	B Out	9
NC	4	B GND	8
		HS Out	10
		HS GND	7
		VS Out	6
		VS GND	5

**Pin Assignment for the camera connectors (rear view)**

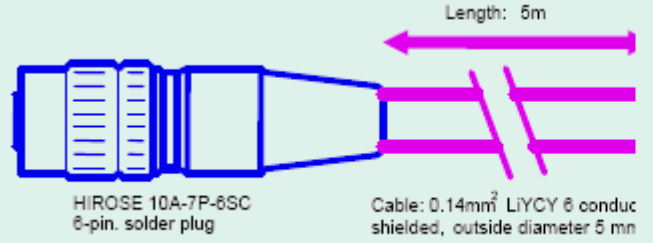


### 3. Cable Assignment

#### 3.1 Trigger/Keypad Cable

Attention! The pin assignments for the x12 und die x32 series are different for the trigger/keypad:

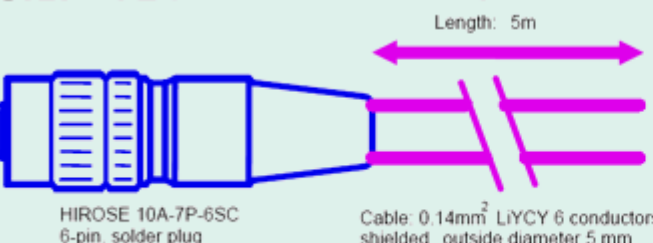
For the models 612 and 812



Signal	Pin Nr.	Cable color
GND	3	white
+5V Out	2	brown
(Trig. In -)	1	green
(Trig. In+)	6	yellow
(Trig. Out)	5	grey
Keypad In	4	pink

One end equipped with Hirose plug, the other with DB9; length 5 m

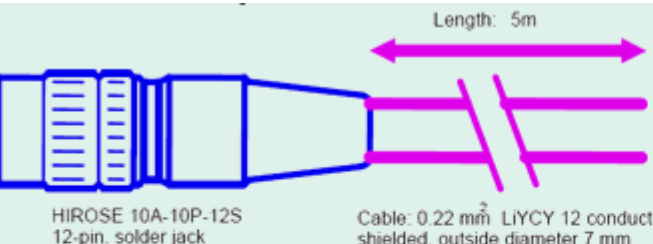
For the models 632 and 1032



Signal	Pin Nr.	Cable color
V24 TxD Out	1	brown
+5V Out	2	pink
GND	3	grey
V24 RxD In	4	white
(Trigger Out)	5	NC
(Trigger In)	6	NC

One end equipped with Hirose plug, the other with DB9; length 5 m

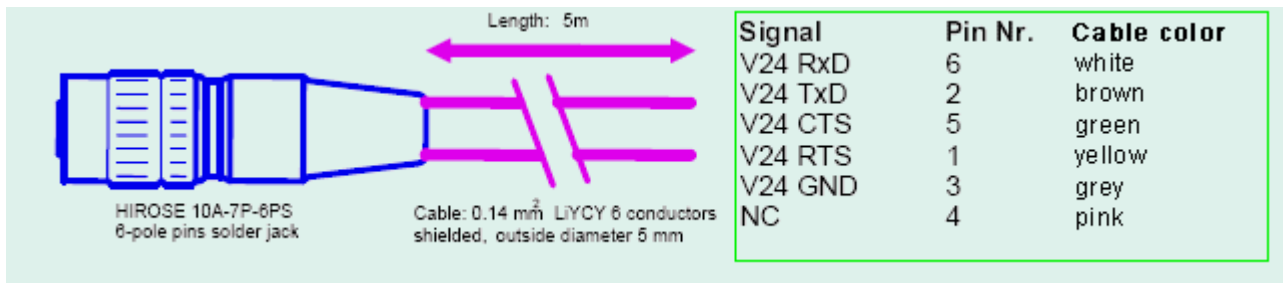
#### 3.2 Power/PLC-Cable



Signal	Pin Nr.	Cable color
OUT0	8	white
OUT1	7	brown
OUT2	6	green
OUT3	5	yellow
IN0	12	grey
IN1	4	pink
IN2	11	blue
IN3	10	purple
24V IN Camera	2	red/blue
GND IN <b>com</b>	3	black
24V PLC	1	red
24V PLC	9	blue/pink

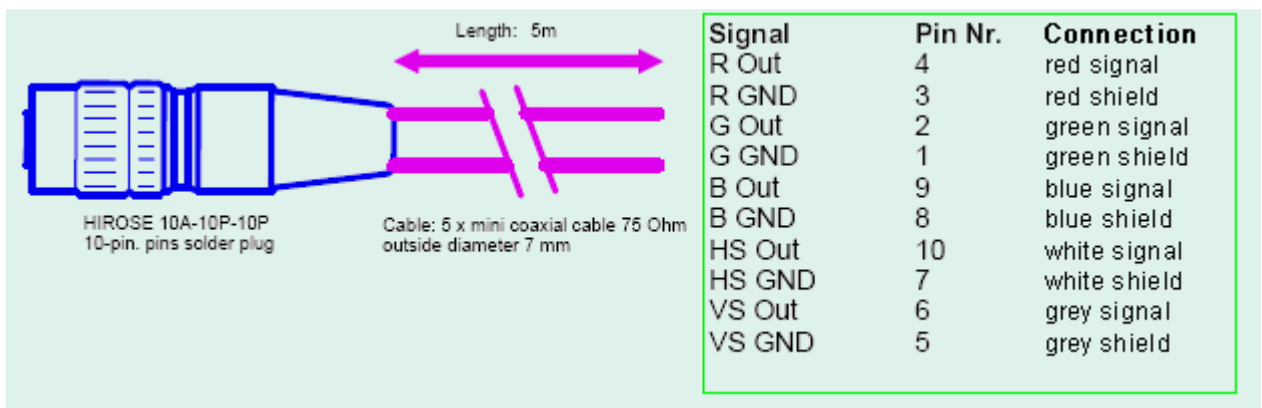
One end equipped with Hirose plug, length 5 m

### 3.3 V24 (RS232) Cable (only for model 612 S)



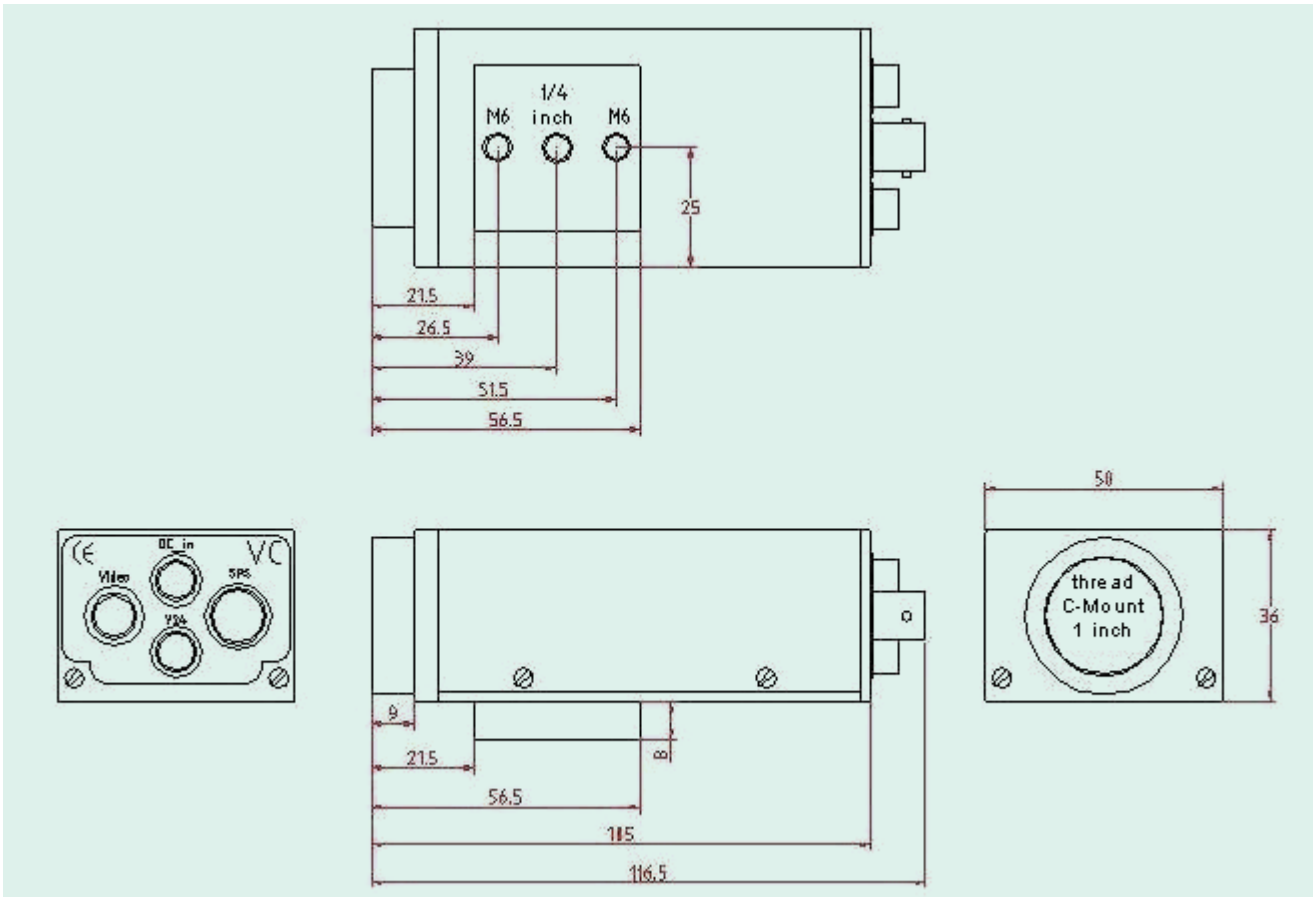
One end equipped with Hirose plug, length 5 m

### 3.4 SVGA Monitor Cable



One end equipped with Hirose plug, the other with DB15 plug jack; length 5 m

# 4. Housing Dimensions



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