







**Embedded (AiO)** or Server-based





**Software LPR** OCR5 Lite/Pro/Pro+

# AiO or PC?

#### AiO (All-in-One)

- Network independent
- Independent lane
- Redundant (AiO and PC)

# PC (PC - Server - VM)

- Processing speed
- Centralized software
- Cloud processing

#### **IR or HYBRID?**

#### **IR (Infrared Light)**

- B/W Image
- Reflective license plates
- Europe, Latam and Asia

# **Hybrid (White light & IR)**

- Color or B/W Image
- NON-reflective license plates
- Badly damaged license plates
- USA, Australia, Brazil Saudi Arabia, UAE
- Vehicle type (OCR5+)

# LITE/PRO/PRO+?

#### LITE

- Price
- One camera per lane
- Front capture
- B/W Image

#### **PRO**

- Max. 2 cameras per lane
- Car & motorcycle lane
- Ticketless car lane

#### PRO+

- + 2 cameras per lane
- Ticketless cars & motorcycles
- Barrierless cars & motorcycles
- Motorcycle or car type
- Free Flow

LPR C	LPR CAMERA MODELS		Location	Capture	Maximum distance	Lane width
Ī	СОМРАСТ	IR HYBRID	Ground	Front	8 m / 26 ft 5 m / 16 ft*	5 m / 16 ft 4 m / 13 ft*
1	BULLET	IR HYBRID	Wall, Ceiling or Pole	Front and Rear	8 m / 26 ft	5 m / 16 ft
	DOME	IR HYBRID	Barrier, Wall or Ceiling	Front and Rear	6 m / 20 ft	4 m / 13 ft
-0	BULLET XXL	IR HYBRID	Wall, Ceiling or Pole	Front and Rear	15 m / 50 ft 10 m / 33 ft*	5,5 m / 18 ft 4,5 m / 15 ft*
	ТОТЕМ	IR HYBRID	Ground	Front and Rear Trucks	8 m / 26 ft 5 m / 16 ft*	5 m / 16 ft 4 m / 13 ft*

<sup>(\*)</sup> Maximum distance in case of only having the illumination of the hybrid led projector or the white led spotlight.

The maximum distance for the Hybrid models, in case of having ambient lighting of 50 lux in the license plate, is the same as in the IR models.

TYPE (	OF FACILITY	Parking	Corporate Residential	Shoppings	Airports Ports	Border posts	Industrial access	Urban traffic
Ī	СОМРАСТ	P		<b>4))</b> °				
	BULLET	P						
	DOME	P						
V-0	BULLET XXL	P		啊);				
	ТОТЕМ	P						









Front and rear capture

Ground

Max. distance 8 m / 26 ft.









Shopping Mall



Airports Ports



Border Posts

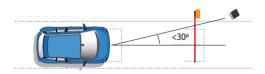


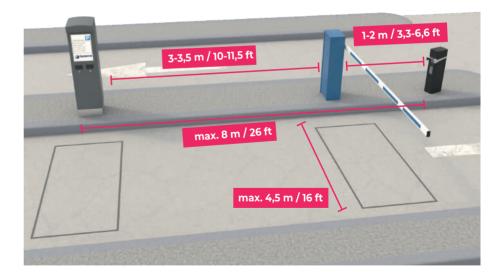
Industral Access



The positioning of the capture unit with regard to the ground must always meet the following requirements:

- The smallest possible horizontal and vertical inclination with respect to the center of the license plate. The maximum recommended inclination is 30°.
- When the vehicle is captured it must be properly in the lane. It is always necessary to seek the most perpendicular position for the camera in terms of the number plate.
- If the capture is performed using a software or hardware trigger, it is necessary to take into account the concealment produced when vehicles travel in convoy.
- It is necessary to avoid concealments caused by the barrier, since the barrier can obscure the camera's view of the number plate when in movement.





	Location	Capture	Maximum distance	Lane width
IR HYBRID	Ground	Front	8 m / 26 ft 5 m / 16 ft*	5 m / 16 ft 4 m / 13 ft*







#### **COMPACT HOUSING**

Material	Stainless steel 304 of 1.2 mm treatment of removing for phosphate and painted with powder
Internal dimensions	150x220 mm (WxD); Height 700 mm
Temperature range	-20°C / +50°C
Window	65x232 mm (WxD)
Weight	10 kg.
Accesories	Electric board to install components inside
Color	Black RAL 9005 Textured

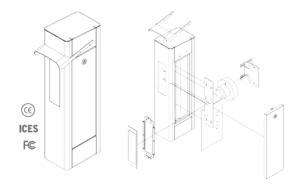
CAMERA IP	LITE	PRO	PRO+
Camera model	Axis P3245V	Axis P3245V	Axis P3265V
Processor	Artpec7 32 bits	Artpec7 32 bits	Artpec8 64 bits
RAM	1GB	1 GB	1 GB
Image sensor	1/2.8" RGB CMOS	1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Varifocal, 3.4-8,9 mm, F1.8	Varifocal, 3.4-8,9 mm, F1.8	Varifocal, 3.4-8,9 mm, F1.8
Video compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 3.5 W, max. 5.7 W	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 3.5 W, max. 5.7 W	Power over Ethernet (PoE) IEEE 802.3af/802.3at Type1 Class3 Typical 3 W, max. 5.1 W
AXIS warranty	5 years	5 years	5 years

IR/HYBRID ILLUMINATOR (199%)	IR (infrared)	HYBRID (white light + infrared)
Operation	IR illuminator with SMD technology for B/W cameras - IR sensitive	Hybrid illuminator with SMD IR leds to work in B/W and SMD White light leds to work in color
Number of LEDS	12 High Power IR LEDs	9 High Power IR Leds / 3 High Power White Light Leds
Wavelength	850 nm	
Power supply	10,5 Vdc - 15 Vdc Imax 1500mA	10,5 Vdc - 15 Vdc Imax 1500mA

#### **SPLITTER PoE**

Operation	Distributes data to the camera and power supply to the LED board	
Outputs	12 Vdc and PoE	
Power supply	PoE+ - 802.at Type 2 30W	

#### DIAGRAMS



#### ANCHORING TYPE



#### **ALL-IN-ONE CAMERAS**

REF.	CAMERA MODEL
10 01 01	Compact IR AIO LITE
10 02 01	Compact IR AIO PRO
10 03 01	Compact IR AIO PRO+
11 02 01	Compact HYBRID AIO PRO
11 03 01	Compact HYBRID AIO PRO+

REF.	CAMERA MODEL	
13 01 01	Compact IR PC LITE	
13 02 01	Compact IR PC PRO	
13 03 01	Compact IR PC PRO+	
14 02 01	Compact HYBRID PC PRO	
14 03 01	Compact HYBRID PC PRO+	









Shopping Mall



Airports Ports



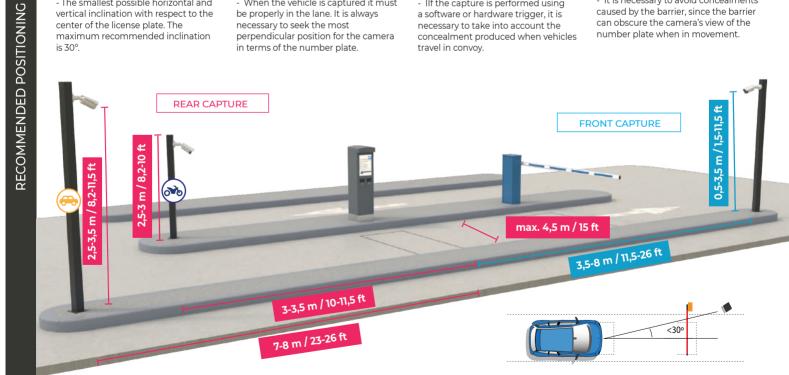
Border Posts





The positioning of the capture unit on the ceiling or wall must always meet the following requirements:

- The smallest possible horizontal and vertical inclination with respect to the center of the license plate. The maximum recommended inclination is 30°.
- When the vehicle is captured it must be properly in the lane. It is always necessary to seek the most perpendicular position for the camera in terms of the number plate.
- IIf the capture is performed using a software or hardware trigger, it is necessary to take into account the concealment produced when vehicles travel in convoy.
- It is necessary to avoid concealments caused by the barrier, since the barrier can obscure the camera's view of the number plate when in movement.



	Location	Capture	Maximum distance	Lane width
IR HYBRID	Wall, Ceiling or Pole	Front and Rear	8 m / 26 ft	5 m / 16 ft

IP CAMERA	LITE	PRO	PRO+
Camera model	Axis P1455LE	Axis P1455LE	Axis P1465LE
Processor	Artpec7 32 bits	Artpec7 32 bits	Artpec8 32 bits
RAM	1 GB	1 GB	1 GB
Image sensor	1/2.8" RGB CMOS	1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Varifocal, 3-9 mm, F1.6	Varifocal, 3-9 mm, F1.6	Varifocal, 3-9 mm, F1.6
Video compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W	Power over Ethernet (PoE) IEEE 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W
AXIS warranty	5 years	5 years	5 years

IR/HYBRID ILLUMINATOR	IR (infrared)	HYBRID (white light + infrared)
Operation	IR illuminator with SMD technology for B/W cameras - IR sensitive	White light SMD LED illuminator for work in color
Number of LEDS	2 High Power IR LEDs integrated in the camera	External focus of 6 LEDs High Power White Light
Wavelength	850 nm	White Light
Power supply		12 Vdc - 15W max.

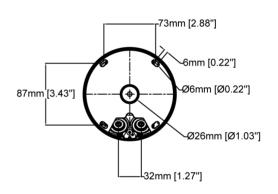
# PoE SPLITTER (optional)

Operation	Distributes data to the camera and power supply to the LED board	
Outputs	12 Vdc & PoE	
Power supply	PoE+ - 802.at Type 2 30W	

#### DIAGRAMS

# -280mm [11.04"]--151mm [5.94"]-(E) ICES F© –264mm [10.39"]–

ANCHORING TYPE
This model is designed to be installed on a wall, ceiling or pole.



# **ALL-IN-ONE CAMERAS**

REF.	CAMERA MODEL	
10 01 02	Bullet IR AIO LITE	
10 02 02	Bullet IR AIO PRO	
10 03 02	Bullet IR AIO PRO+	
11 02 02	Bullet HYBRID AIO PRO	
11 03 02	Bullet HYBRID AIO PRO+	

REF.	CAMERA MODEL	
13 01 02	Bullet IR PC LITE	
13 02 02	Bullet IR PC PRO	
13 03 02	Bullet IR PC PRO+	
14 02 02	Bullet HYBRID PC PRO	
14 03 02	Bullet HYBRID PC PRO+	













Airports Ports

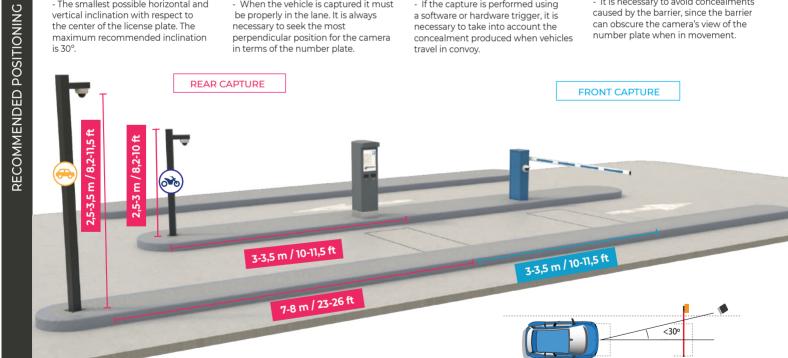






The positioning of the capture unit on the ceiling or wall must always meet the following requirements:

- The smallest possible horizontal and vertical inclination with respect to the center of the license plate. The maximum recommended inclination is 30°.
- When the vehicle is captured it must be properly in the lane. It is always necessary to seek the most perpendicular position for the camera in terms of the number plate.
- If the capture is performed using a software or hardware trigger, it is necessary to take into account the concealment produced when vehicles travel in convoy.
- It is necessary to avoid concealments caused by the barrier, since the barrier can obscure the camera's view of the number plate when in movement.



	Location	Captuea	Maximum distance	Lane width
IR HYBRID	Barrier, Wall or Ceiling	Front and Rear	6 m / 20 ft	4 m / 13 ft

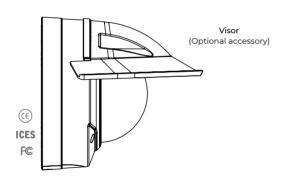
IP CAMERA	LITE	PRO	PRO+
Camera model	Axis P3245L	VE Axis P3245LVE	Axis P3265LVE
Processor	Artpec7 32 l	oits Artpec7 32 bits	Artpec8 64 bits
RAM	1 GB	1 GB	1 GB
Image sensor	1/2.8" RGB CN	MOS 1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	1080 HDTV (1920	0x1080) 1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Varifocal, 3.4-8,9 n	mm, F1.8 Varifocal, 3.4-8,9 mm, F1.8	8 Varifocal, 3.4-8,9 mm, F1.8
Video compression	H.264 / H.265 / N	MJPEG H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ether 802.3af/802.3at Tyj Typical 6.4 W, ma	pel Class3 802.3af/802.3at Typel Clas	ss3 802.3af/802.3at Type1 Class3
AXIS warranty	5 years	5 years	5 years

IR/HYBRID ILLUMINATOR	IR (infrared)	HYBRID (white light + infrared)
Operation	IR illuminator with SMD technology for B/W cameras - IR sensitive	White light SMD LED illuminator for work in color
Number of LEDS	2 High Power IR LEDs integrated in the camera	External focus of 6 LEDs High Power White Light
Wavelength	850 nm	White Light
Power supply		12 Vdc - 15W max.

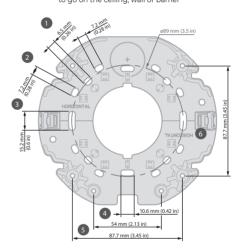
# PoE SPLITTER (optional)

Operation	Distributes data to the camera and power supply to the LED board	
Outputs	12 Vdc & PoE	
Power supply	PoE+ - 802.at Type 2 30W	

#### DIAGRAMS



ANCHORING TYPE
DOME is recommended where the capture unit has
to go on the ceiling, wall or barrier



# **ALL-IN-ONE CAMERAS**

REF.	CAMERA MODEL
10 01 03	Dome IR AIO LITE
10 02 03	Dome IR AIO PRO
10 03 03	Dome IR AIO PRO+
11 02 03	Dome HYBRID AIO PRO
11 03 03	Dome HYBRID AIO PRO+

REF.	CAMERA MODEL	
13 01 03	Dome IR PC LITE	
13 02 03	Dome IR PC PRO	
13 03 03	Dome IR PC PRO+	
14 02 03	Dome HYBRID PC PRO	
14 03 03	Dome HYBRID PC PRO+	







Residential







Airports Ports



Border Posts



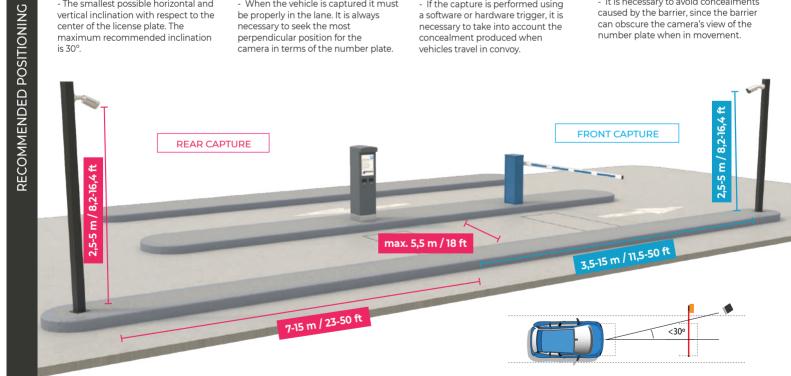
Industral Access



Urban Traffic

The positioning of the capture unit on the ceiling or wall must always meet the following requirements:

- The smallest possible horizontal and vertical inclination with respect to the center of the license plate. The maximum recommended inclination is 30°.
- When the vehicle is captured it must be properly in the lane. It is always necessary to seek the most perpendicular position for the camera in terms of the number plate.
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- It is necessary to avoid concealments caused by the barrier, since the barrier can obscure the camera's view of the number plate when in movement.



	Location	Capteure	Maximum distance	Lane width
IR HYBRID	Wall, Ceiling or Pole	Front and Rear	15 m / 50 ft 10 m / 33 ft*	5,5 m/18 ft 4,5 m/15 ft*

IP CAMERA	LITE	PRO	PRO+
Camera model	Axis Q1785LE	Axis Q1785LE	Axis Q1785LE
Processor	Artpec6 32 bits	Artpec6 32 bits	Artpec6 32 bits
RAM	1 GB	1 GB	1 GB
Image sensor	1/2.8" RGB CMOS	1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Varifocal, 4,3-137 mm, F1.4	Varifocal, 4,3-137 mm, F1.4	Varifocal, 4,3-137 mm, F1.4
Video compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W	Power over Ethernet (PoE) IEEE 802.3af/802.3at Typel Class3 Typical 7.7 W, máx. 12.95 W
AXIS warranty	5 years	5 years	5 years

IR/HYBRID ILLUMINATOR	IR (infrared)	HYBRID (white light + infrared)
Operation	IR illuminator with SMD technology for B/W cameras - IR sensitive	White light SMD LED illuminator for work in color
Number of LEDS	2 High Power IR LEDs integrated in the camera	External focus of 6 LEDs High Power White Light
Wavelength	850 nm	White Light
Power supply		12 Vdc - 15W max.

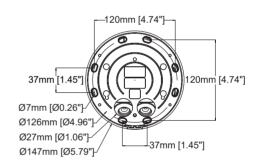
# PoE SPLITTER (optional)

Operation	Distributes data to the camera and power supply to the LED board	
Outputs	12 Vdc & PoE	
Power supply	PoE+ - 802.at Type 2 30W	

#### DIAGRAMS

# -386mm [15.19"]--251mm [9.89"] (() ICES 122mm [4.82"] F© –335mm [13.17"]–

ANCHORING TYPE
This model is designed to be installed on a wall, ceiling or pole.



# **ALL-IN-ONE CAMERAS**

REF.	CAMERA MODEL
10 01 04	Bullet XXL IR AIO LITE
10 02 04	Bullet XXL IR AIO PRO
10 03 04	Bullet XXL IR AIO PRO+
11 02 04	Bullet XXL HYBRID AIO PRO
11 03 04	Bullet XXL HYBRID AIO PRO+

REF.	CAMERA MODEL
13 01 04	Bullet XXL IR PC LITE
13 02 04	Bullet XXL IR PC PRO
13 03 04	Bullet XXL IR PC PRO+
14 02 04	Bullet XXL HYBRID PC PRO
14 03 04	Bullet XXL HYBRID PC PRO+









Residential



Shopping Mall



Airports Ports



Border Posts

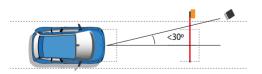


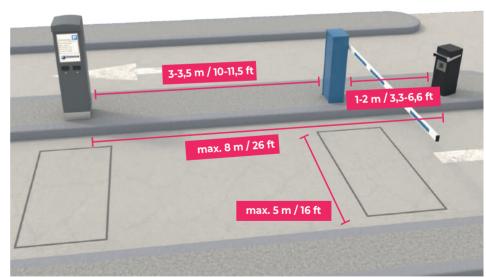
Industral Access



The positioning of the capture unit with regard to the ground must always meet the following requirements:

- The smallest possible horizontal and vertical inclination with respect to the center of the license plate. The maximum recommended inclination is 30°.
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- It is necessary to avoid concealments caused by the barrier, since the barrier can obscure the camera's view of the number plate when in movement.





	Location	Capture	Maximum distance	Lane width
IR HYBRID	Ground	Front and Rear	8 m / 26 ft 5 m / 16 ft*	5 m / 16 ft 4 m / 13 ft*





#### **TOTEM HOUSING**

Material	1.5 mm 304 stainless steel with degreasing, phosphating and powder coating treatment
Internal dimensions	260x250mm (WxD); Height 700mm
Temperature range	-20°C/+50°C
Protection	IP 65 (EN 60529)
Window	180x140mm (WxH); glass 5mm.
Weight	18 kg.
Accessories	Electric plate to install components inside
Color	Color Black RAL 9005 GOF

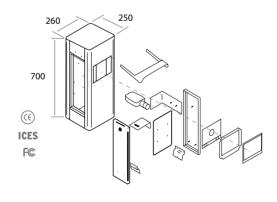
CAMERA IP	LITE	PRO	PRO+
Camera model	Axis P3245V	Axis P3245V	Axis P3265V
Processor	Artpec7 32 bits	Artpec7 32 bits	Artpec8 64 bits
RAM	1GB	1 GB	1 GB
Image sensor	1/2.8" RGB CMOS	1/2.8" RGB CMOS	1/2.8" RGB CMOS
Maximum resolution	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)	1080 HDTV (1920x1080)
Lens	Varifocal, 3.4-8,9 mm, F1.8	Varifocal, 3.4-8,9 mm, F1.8	Varifocal, 3.4-8,9 mm, F1.8
Video compression	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Power supply	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 3.5 W, max. 5.7 W	Power over Ethernet (PoE) 802.3af/802.3at Typel Class3 Typical 3.5 W, max. 5.7 W	Power over Ethernet (PoE) IEEE 802.3af/802.3at Typel Clas3 Typical 3.5 W, max. 5.7 W
AXIS warranty	5 years	5 years	5 years

IR/HYBRID ILLUMINATOR	IR (infrared)	HYBRID (white light + infrared)
Operation	IR illuminator with SMD technology for B/W cameras - IR sensitive	Hybrid illuminator with SMD IR leds to work in B/W and SMD White light leds to work in color
Number of LEDS	12 High Power IR LEDs	9 High Power IR Leds / 3 High Power White Light Leds
Wavelength	850 nm	
Power supply	10,5 Vdc - 15 Vdc Imax 1500mA	10,5 Vdc - 15 Vdc Imax 1500mA

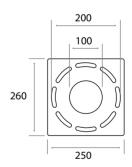
# SPLITTER PoE

Operation	Distributes data to the camera and power supply to the LED board
Outputs	12 Vdc and PoE
Power supply	PoE+ - 802.at Type 2 30W

#### **DIAGRAMS**



#### ANCHORING TYPE



# **ALL-IN-ONE CAMERAS**

REF.	CAMERA MODEL
10 01 05	Totem IR AIO LITE
10 02 05	Totem IR AIO PRO
10 03 05	Totem IR AIO PRO+
11 02 05	Totem HYBRID AIO PRO
11 03 05	Totem HYBRID AIO PRO+

REF.	CAMERA MODEL
13 01 05	Totem IR PC LITE
13 02 05	Totem IR PC PRO
13 03 05	Totem IR PC PRO+
14 02 05	Totem HYBRID PC PRO
14 03 05	Totem HYBRID PC PRO+