ANALOGUE SYSTEMS

Advice for use:

Blocks of flats and condos

Discover the Urmet range
of traditional and wireless ringers
page 57

Urmet analogue systems provide answers to all needs and any styles chosen
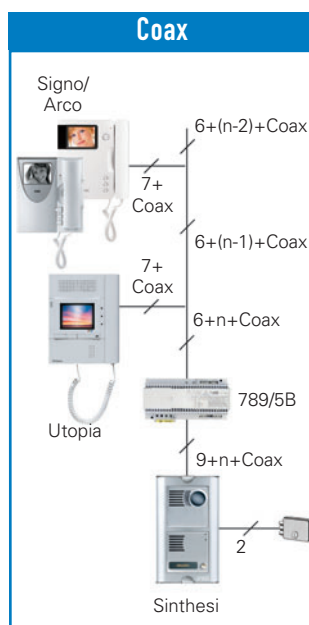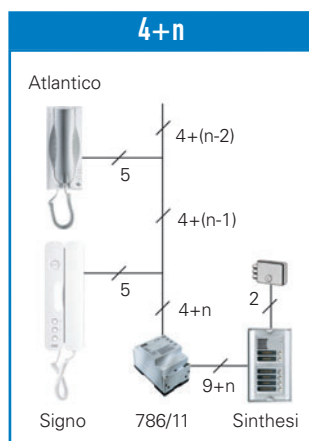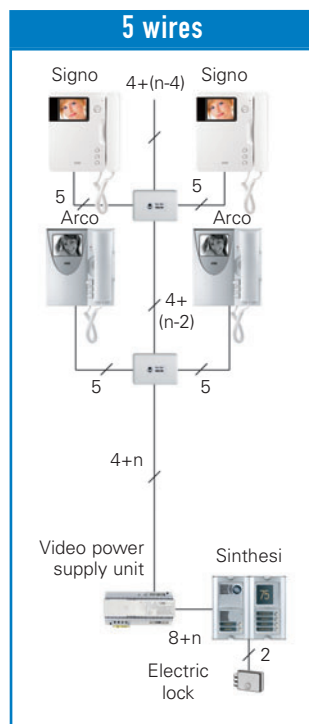the user for apartment stations and entry panels
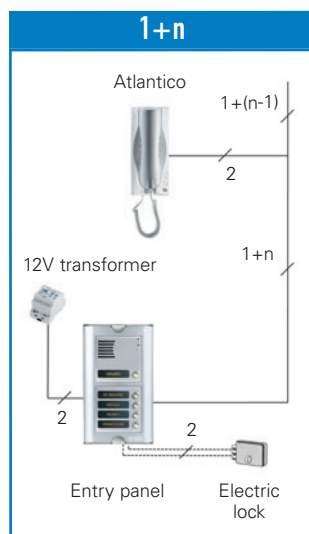
COMPATIBILITY TABLE: STYLE

Imago	Signo	Utopia	Arco	Atlantico	1130

Exigo	Sinthesi	K-steel	Smyle	Mod. 725

Refer to the pages describing the various single products for technical details on the apartment station styles and on the entry panels which can be used in the system.

COMBINATION KITS

Video Coax	Video 5 wires	Audio 4+n
1715/621, 1715/622	956/39, 956/41, 956/42, 956/49 1715/601, 1715/602	1129/501, 1129/502, 1129/518, 1129/528, 1129/601, 1133/301, 1133/302

For kit details, see pages **124** / **131**.

4+n

Atlantico

4+(n-2)

5

4+(n-1)

5

4+n

2

9+n

Signo   786/11   Sinthesi

1+n

Atlantico

1+(n-1)

2

12V transformer

1+n

2

2

Entry panel   Electric lock

Coax

Signo/ Arco

6+(n-2)+Coax

7+ Coax

6+(n-1)+Coax

7+ Coax

6+n+Coax

789/5B

Utopia

9+n+Coax

2

Sinthesi

5 wires

Signo   4+(n-4)   Signo

5   5

Arco   Arco

4+ (n-2)

5   5

4+n

Video power supply unit   Sinthesi

8+n

2

Electric lock

Audio systems

Audio systems offer the fundamental functions of a system (call, audio and door opening). There are two installation types: 4+n and 1+n.

4+n

4+n systems have a riser column with 4 common wires plus n wires, where n is the number of calls to be managed.
Furthermore, door phones with traditional call (12 Vac buzzer) or electronic call (the speaker of the door phone itself is used to generate the call tone) may be used in 4+n systems. Systems may be created with intercom conversation privacy to the loudspeaking unit.
Several automatically switching entrance doors may be catered for.

1+n

The 1+n audio system was created to transform a traditional bell system into a complete door phone system without needing to add wires to the column and ensuring conversation privacy between the various apartments.

Video systems

Analogue video systems derive from the 4+n and 1+n audio systems and may be split into two types: coax systems and 5-wire systems.

Coax video systems

4+n door phones with electronic call are used in coax systems. A very high number of combinations are possible, with both b/w and colour video door phones. The coax cable allows great distances between camera and monitors and allows to create the same system types as a 4+n audio system.

5-wire systems

The 5-wire system derives from the 1+n audio system and is suitable for transforming 4+n audio systems into video systems without adding a coax or other wires in the riser column.

The audio/video analogue systems are suitable for small to medium sized installations because one wire is needed in the riser column for each call.

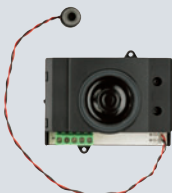# ANALOGUE SYSTEMS

Imago 1707/1

Signo 1740/40

Utopia 1703/17

Arco 1715/1

824/500

1128/500

BRACKET COMPATIBILITY AND SYSTEMS WITH VIDEO APARTMENT STATION

Monitor	5 wires	Coax
● Imago	–	1707/90
● Signo	1740/955	1740/90 - 1740/86 (with add-on)
Signo b/w	1740/955	1740/90 - 1740/86 (with add-on)
● Utopia with handset	1703/955	1703/90
● Utopia hands-free	–	1703/91
Arco	1705/955	1705/90

DOOR PHONE - SYSTEM COMPATIBILITY

Door phone	1+n	4+n
Signo	–	1140/1 (white) - 1140/41 (anthracite) 1140/42 (platinum) - 1140/12 (white)
Atlantico	1133/35A	1133 (white) - 1133/1 (white)
Mod. 1130	–	1130/1 (ivory) 1130/50 (white) - 1130/55 (white)

4+N AUDIO LOUDSPEAKING UNITS

824/500	Slim audio loudspeaking unit for Exigo entry panel
1145/500	Audio loudspeaking unit for Sinthesi entry panel
1145/510 **new**	Sinthesi 12Vac audio entry panel
1128/500	Audio loudspeaking unit for Mod. 725, Exigo e Smyle entry panels
1128/510	Audio loudspeaking unit for Mod. 725, Exigo e Smyle entry panels, 12 Vac power
5150/53	3-wire audio loudspeaking unit for Mod. 725 / Exigo entry panel
1155/20	Module with loudspeaking unit for K-steel entry panel
1155/21	Module with loudspeaking unit and one button for K-steel entry panel
1155/22A	Module with loudspeaking unit and two buttons for K-steel entry panel

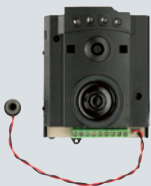See the dedicated section for more information on entry panels, loudspeaking units and apartment stations.

● Colour.

CAMERAS AND CAMERAS WITH LOUDSPEAKING UNIT FOR COAX VIDEO SYSTEMS

1810/40	●	Colour camera module for Exigo entry panel
1745/40	●	Colour camera with integrated loudspeaking unit for Smyle entry panel
1745/49	●	As 1745/40 but for 60 Hz systems
1745/41	●	Colour camera module with loudspeaking unit and one button for Sinthesi entry panel
1755/40	●	Colour camera module with loudspeaking unit and one button for K-steel entry panel
1755/41	●	Colour camera module with loudspeaking unit and one button for K-steel entry panel
1728/40**	●	Colour camera with integrated loudspeaking unit for Smyle entry panel
1810/70		B/W camera module for Exigo entry panel
1745/70		B/W camera module for Sinthesi entry panel
1745/79		As 1745/70 but with 60 Hz camera
1745/80		B/W camera module with loudspeaking unit for Sinthesi entry panel
1745/81		B/W camera module with loudspeaking unit and one button for Sinthesi entry panel
1745/82		B/W camera module with loudspeaking unit and two buttons for Sinthesi entry panel
1755/70		CCD b/w manual pan and tilt camera with built-in lightfor coaxial systems, 50 Hz Dimensions (W x H): 125 x 106 mm.
1755/79		As 1755/70 but for 60 Hz systems Dimensions (W x H) 125 x 106 mm.
1755/80		B/W camera module with loudspeaking unit for K-steel entry panel
1755/81		B/W camera module with loudspeaking unit and one button for K-steel entry panel
1728/80		B/W camera with integrated loudspeaking unit for Smyle entry panel
725/600		B/W camera module for Mod. 725 entry panel

1745/82

1728/80

1+n AUDIO LOUDSPEAKING UNITS

1145/67	Audio loudspeaking unit for Sinthesi entry panel
1035/67	Audio loudspeaking unit for Mod. 725 entry panel
1155/30**	Module with loudspeaking unit for K-steel entry panel
1155/31	Module with loudspeaking unit and one button for K-steel entry panel
1155/32A	Module with loudspeaking unit and two buttons for K-steel entry panel

1145/67

1035/67

CAMERAS AND CAMERAS WITH LOUDSPEAKING UNIT FOR 5 WIRE VIDEO SYSTEMS

1810/40	●	Colour camera module for Exigo entry panel to be used in combination with 1742/13A board.
1745/40	●	Colour camera module for Sinthesi entry panel to be used in combination with 1742/13A board.
1755/45	●	Colour camera module for K-steel entry panel
1745/49	●	Colour camera module for Sinthesi entry panel to be used in combination with 1742/13A board, 60 Hz
1745/79		As 1745/70 but for 60 Hz systems to be used in combination with 1742/13A. Dimensions (W x H) 125 x 106 mm.
1810/70		B/W camera module for Exigo entry panel to be used in combination with 1742/13A board.

** Contact the sales network for availability. ● Colour.

1745/22

725/600

786/11

786/13

9000/230

CAMERAS AND CAMERAS WITH LOUDSPEAKING UNIT FOR 5 WIRE VIDEO SYSTEMS

	1745/20	B/W camera module with loudspeaking unit for Sinthesi entry panel
	1745/21	B/W camera module with loudspeaking unit and one button for Sinthesi entry panel
▣	1745/22	B/W camera module with loudspeaking unit and two buttons for Sinthesi entry panel
	1755/30A	B/W camera module for K-steel entry panel
	1755/39A	As 1755/30A but for 60 Hz systems Dimensions (W x H) 125 x 106 mm.
	1755/20**	B/W camera module with loudspeaking unit for K-steel entry panel
▣	725/600	B/W camera module for Mod.725 entry panel to be used in combination with 1742/13A board.

DOOR PHONE POWER SUPPLY UNIT

Code	Dimensions (H x W x D) mm	DIN mod.	Electrical specifications	No. of devices called in parallel	Notes
▣ 786/11	61 x 54 x 90	3	Power: 230Vac Audio circuit: 6Vdc@0.12A Electric lock power12Vdc@2A Tone generator: 8Vpp Intercom audio circuit: 3.5-6.5@0.12A Power dissipated after one hour of work: 4.2 W Transformer power: 28VA	4 with electronic call 2 with traditional call	Device with call generator to be used in basic 4+n door phone systems. Use bracket kit 786/50 for fixing to the wall. Replaces 786/1, 786/14, 786/38 and 9006/1.
786/12	61 x 54 x 90	3	Power: 110Vac Audio circuit: 6Vdc@0.12A Electric lock power12Vdc@2A Tone generator: 8Vpp Intercom audio circuit: 3.5-6.5@0.12A Power dissipated after one hour of work: 4.2 W Transformer power: 28VA	4 with electronic call 2 with traditional call	Device with call generator to be used in basic 4+n door phone systems. Use bracket kit 786/50 for fixing to the wall. Replaces 786/14, 786/38.
▣ 786/13	61 x 90 x 108	6	Power: 230Vac Audio circuit: 6Vdc@0.12A Electric lock power12Vdc@2.4A Tone generator: 8Vpp Intercom audio circuit: 3.5-6.5@0.12A Max. relay contact power: 5A @ 12Vac Power dissipated after one hour of work: 4.2 W Transformer power: 28VA	4 with electronic call 2 with traditional call	Device for 4+n audio systems provided with 2 call generators for differentiating calls from loudspeaking units. A timed relay (2-25s) is provided to control the electric lock in case of long distance between loudspeaking unit and apartment station. Replaces 786/1, 786/14, 786/38 and 9006/1.
786/15	61 x 90 x 108	6	Power: 230Vac Audio circuit: 6Vdc@0.12A Electric lock power12Vdc@2.4A Tone generator: 8Vpp Intercom audio circuit: 3.5-6.5@0.12A Relay contact capacity (7-8-9): 5A @ 12Vac Relay contact cap. 1-2-3 and 4-5-6): 5A @ 12Vac Power dissipated after one hour of work: 4.2 W Transformer power: 28VA	4 with electronic call 2 with traditional call	Device for 4+n systems provided with relay for automatically switching 2 inputs or one input and intercom. Two call generators are present for differentiated calls between services. Replaces 786/5 and 9006/5 power units.
▣ 9000/230	54 x 83 x 58,5	3	Power: 230Vac Secondary output: 12Vac@1.3A Transformer power: 18 VA	2 with traditional call	Transformer provided with PTC self-resetting protection in event of short-circuit.
9000/110	54 x 83 x 58,5	3	Power: 110Vac Secondary output: 12Vac@1.3A Transformer power: 18 VA	2 with traditional call	Transformer provided with PTC self-resetting protection in event of short-circuit.

Type-approval: IMQ-CE- CEI EN 60065
(except for code 786/11 which is IMQ-CE- VDE CEI EN 60065 approved)

** Contact the sales network for availability.

VIDEO DOOR PHONE POWER SUPPLY UNITS

789/5B

789/3

789/1

Code	Dimensions (H x W x D) mm	DIN mod.	Electrical specifications	Functions	Notes
789/5B	180 x 75 x 97	10	Power: 230Vac Audio circuit: 6Vdc@0.2A Electric lock power12Vdc@2A Tone generator: 8Vpp Consumption: 200mA Timed output: 18Vdc@0.85A; 16Vdc@0.23Vac Timer: 45-180s Power dissipated after one hour of work: 5.7 W Transformer power: 38VA	The device allows to: - call up to 4 devices with electronic call - switch on one Arco monitor or two Imago/Signo/Utopia monitors at the same time.	Used for powering video door phone systems with electronic call. Provided with self-resetting PTC protection, adjustable timer and call generator. Device 786/51 is needed in intercom systems.
789/6B	180 x 75 x 97	10	Power: 110Vac Audio circuit: 6Vdc@0.2A Electric lock power12Vdc@2A Tone generator: 8Vpp Consumption: 200mA Timed output: 18Vdc@0.85A; 16Vdc@0.23Vac Timer: 45-180s Power dissipated after one hour of work: 5.7 W Transformer power: 38VA	The device allows to: - call up to 4 devices with electronic call - switch on one Arco monitor or two Imago/Signo/Utopia monitors at the same time.	Used for powering video door phone systems with electronic call. Provided with self-resetting PTC protection, adjustable timer and call generator. Device 786/51 is needed in intercom systems.
789/2	126 x 75 x 97	7	Power: 230Vac Consumption: 150mA Timed output: 18Vdc@0.65A Power dissipated after one hour of work: 4.2 W Transformer power: 28VA	The device allows to switch on one video door phone only.	Used in combination with 789/5B with local power supply to switch on various video door phones at the same time. Replaces power supply unit 7073/5.
789/3	126 x 75 x 97	7	Power: 230Vac Consumption: 200mA Timed output: 18Vdc@ 1.35A Power dissipated after one hour of work: 5.7 W Transformer power: 38VA	The device is used to switch on two Arco monitors or three Imago/Signo/Utopia monitors at the same time.	Used in combination with 789/5B with local power supply to switch on various video door phones at the same time. Replaces power supply unit 7073/5.
789/1	360 x 75 x 97	20	Power: 230/110 Vac. Audio circuit: 6Vdc@0.2A Electric lock power12Vdc@2A Tone generator: 8Vpp Consumption: 250mA Timed output: 18Vdc@0.85A; 16Vdc@0.23Vac Timer: 45-180s Power dissipated after one hour of work: 7.5 W Transformer power: 50VA	The device allows to: - call up to 2 devices with electronic call - switch on only one monitor	Used for powering video door phone systems with electronic and traditional call. Provided with self-resetting PTC protection, adjustable timer and call generator. Replaces power units 7073/1 and 7073.

Type-approval: IMQ-CE- CEI EN 60065

RELAY BOXES, TONE GENERATORS, TIMERS AND LINE PROTECTIONS

788/51

788/54

788/52

1032/81

787/1

Code	Dimensions (H x W x D) mm	DIN mod.	Electrical specifications	Notes
788/51	108 x 90 x 55	6	Power: 12Vdc Consumption: 0.18A@12Vac Relay contact capacity (7-8-9): 5A@12Vac Max. contact power: 1A@12Vac	Relay used to manage 2 audio/video loudspeaking units or 1 audio/video loudspeaking unit and automatic switching intercom service. Provided with 5 outputs, replaces relays 9332/1 788/1 and 4340/11.
788/54	216 x 90 x 64	12	Power: 12Vdc Consumption: 0.18A@12Vac Max. relay contact power: 5A@30V Max. contact power: 2A@100V	Relay used to manage up to 4 audio/video loudspeaking units or 1 audio/video loudspeaking unit and automatic switching intercom service. Provided with 5 outputs, replaces relay 788/4.
788/58	108 x 90 x 55	6	Power: 12Vdc Consumption: 0.18A@12Vac Max. relay contact power: 5A@30V Max. contact power: 2A@100V	Relay used to manage up to 4 audio/video loudspeaking units or 1 audio/video loudspeaking unit and automatic switching intercom service. Provided with 4 outputs, replaces relays 788/8 and 9332/8.
788/52	54 x 64 x 90	3	Power: 12Vac Consumption: 0.18A@12Vac Max. relay contact power: 5A@30V	Relay used for repeating electronic/traditional calls or control a second electric lock. Provided with 2 outputs, replaces relays 788/11-788/21-788/30 and 788/5. For fixing to the wall using kit 786/50.
788/22	47 x 58 x 15	-	Power: 12Vac Consumption: 200mA@12Vdc Max. relay contact power: 5A@12Vac Timer 1-30s	Relay used for repeating electronic/traditional calls. It is provided with an output and can be installed inside the doorphone.
1032/81	72 x 90 x 75	4	Power: 12-24Vdc/Vac Consumption: 200mA@12Vdc Max. relay contact power: 5A@12Vac	Electric lock timer.
1038/69	120 x 120 x 55	-	Power: 12-24Vdc/Vac Consumption: 300mA	Video switch for cyclically switching up to 4 CCTV cameras to a single output.
789/51	36 x 75 x 103	2	Power: 6Vdc Consumption: 50mA	Electronic impedance to be used in combination with the 789/5B power supply unit with coaxial and intercom service.
787/1	75 x 72 x 103	4	Power: 12Vac Consumption: 250mA@12Vac	Tone generator to be used for repeating electronic calls in 4+n audio systems and coax video systems. Calls two devices at the same time.
787/2	75 x 72 x 103	4	Power: 12Vac Consumption: 250mA@12Vac	Tone generator to be used for repeating electronic calls in 1+n audio systems and 5-wire video systems. Calls two devices at the same time.
1332/85	36 x 90 x 58	2	Max. load: 4000VA Max. current: 20A	230Vac power line protection device. To be used near the device to be protected.
1332/86	37 x 90 x 58	3	Max. load: 4000VA Max. current: 20A dB attenuation: 60dB@2MHz	Radiofrequency filter on 230Vac feeding line. To use in case of radiofrequency interference on the system.

ACCESSORIES FOR 4+n AUDIO AND COAX VIDEO SYSTEMS

786/50**	**Wall fastening bracket kit** Provided with DIN guide, 2 wall anchors and screws and 2 lids for fixing power supply unit 786/11 and relay box 788/52 to the wall outside the DIN module panel.
1794/4A	**4 output video distributor for coax systems** Distributes video signal to floor; power at 15-18Vdc. Dimensions: (W x H x D) 95 x 64 x 28 mm
1131/4	**10 diode box** For use in 4+n audio and coax systems with intercom function.
7057/234	**14 wire cable + coax** 100m reels, external diameter of cable 17 mm; sections: 2 x 0.8 mm^2, 6 x 0.5 mm^2, 6 x 0.35 mm^2
7057/235	**8 wire cable + coax** 100m reels, external diameter of cable 15 mm; sections: 2 x 1 mm^2, 2 x 0,8 mm^2, 3 x 0,35 mm^2, 1 x 0,5 mm^2

ACCESSORIES FOR 1+n AUDIO AND 5-WIRE VIDEO SYSTEMS

1742/13A	**Camera adapter device** This is used to adapt a camera with video signal on coax cable in VOP systems.
955/40	**4 output video distributor for 5-wire systems** Distributes video signal to floor; power at 15-18Vdc. Dimensions: (W x H x D) 95 x 64 x 28 mm
1145/74	**Conversation privacy device for Sinthesi and K-steel entry panels** One every four users.
1035/25	**Conversation privacy device for Mod. 725 entry panels** One every four users.
1110/74	**Conversation privacy device for Exigo entry panels** One every four users.

1742/13A

** Contact the sales network for availability.