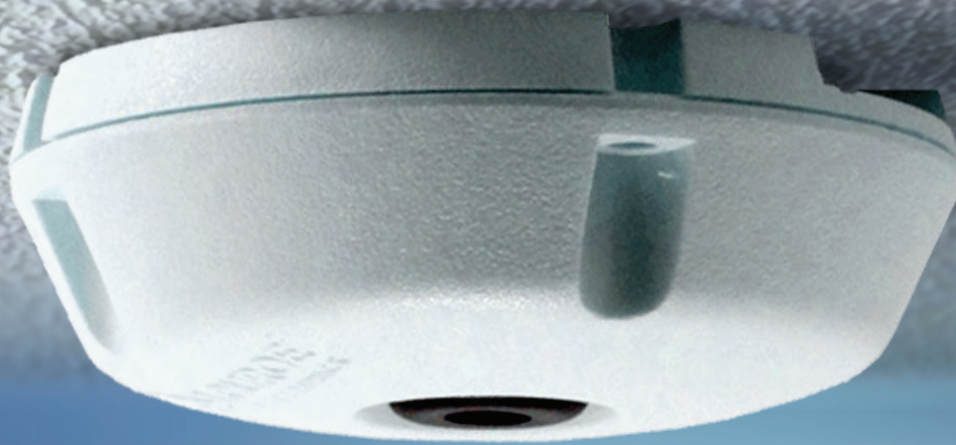




LOUROS
ELECTRONICS®

World Leader in Audio Monitoring Technology Since 1979

Audio Monitoring Technology Quick Reference Guide



Digital & Line Level

Microphones



	Line Level	Line Level	Line Level Non AGC			Digital PoE	Digital PoE
Model	VERIFACT® A USB	VERIFACT® D USB	VERIFACT® A	VERIFACT® B (3')	VERIFACT® C	DIGIFACT® A	DIGIFACT® E
LE Product Number	LE-052	LE-053	LE-070	LE-071	LE-072	LE-870	LE-875
Microphone Mounting	Ceiling	Wall	Ceiling		Special Application	Ceiling	Wall/Pole
Indoor/Outdoor	Indoor					Indoor	Outdoor-weather resitant

Specifications

Pick Up Pattern	Omni-directional, within 30' diameter circle						
Type	Electret condenser						
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL						
Frequency Response	50 Hz to 15 kHz						
Output	Digital		Line level (0 dBV, 600 Ω @ 1 kHz)				
Current Drain	100 mA		10 mA				1 A @ 5VDC
Supply Voltage	5 Vdc		12 Vdc				PoE IEEE802.3af
Housing	High impact anti static ABS	Stainless steel faceplate Single gang-electrical box (not included)	High impact anti static ABS				High impact anti static ABS Aluminum Alloy
Dimensions	4" dia x 1 1/2" H	2 3/4" W x 4 1/2" H	4" dia x 1 1/2" H		2 5/8" L x 2 1/8" W x 1 1/16" H	6" dia x 3.5" H	4.2" W x 6.5" Hx3D
Weight	3.5 oz	2.5 oz	3.5 oz	4 oz	1.5 oz	9 oz	2 lbs
Compatibility	CCTV, DVR						Network
UL Listed	x						x



	Line Level Non AGC				
Model	VERIFACT® D	VERIFACT® DV	VERIFACT® E	VERIFACT® K	VERIFACT® L-DT
LE Product Number	LE-078	LE-069	LE-075	LE-077	LE-079
Microphone Mounting	Wall	Wall-vandal resistant	Wall		
Indoor/Outdoor	Indoor		Outdoor-weather resistant	Indoor	

Specifications

Pick Up Pattern	Omni-directional, within 30' diameter circle			Directional within 12' from the microphone location		Bi-directional within 10' from the microphone location	
Type	Electret condenser			Dynamic		2 Electret condenser	
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			-58 dBV/Pa		-45 dBV/Pa	
Frequency Response	50 Hz to 15 kHz			100 Hz to 15 kHz		300 Hz to 8 kHz	
Output	Line level (0 dBV, 600 Ω @ 1 kHz)					Line level (0 dBV, 1 kΩ @ 1 kHz)	
Current Drain	10 mA						
Supply Voltage	12 Vdc						
Housing	Stainless steel faceplate		Single gang weather resistant bell box	High impact anti-static ABS			
	Single gang electrical box (not included)						
Dimensions	2 ¾" W x 4 ½" H		2 ¾" W x 4 ½" H x 2 ⅝" D	4 ⅜" L x 2" W x 1 ¾" H		4 ⅜" L x 2 ¼" W x 1 ½" H	
Weight	2.5 oz	4 oz	11.5 oz	2.5 oz			
Compatibility	CCTV, DVR						
UL Listed	x						

Line Level AGC

Microphones



Line Level AGC						
Model	VERIFACT® AGC	VERIFACT® BGC	VERIFACT® CGC	VERIFACT® DGC	VERIFACT® DVGC	VERIFACT® EGC
LE Product Number	LE-510	LE-571	LE-572	LE-578	LE-569	LE-575
Microphone Mounting	Ceiling		Special application	Wall	Wall-vandal resistant	Wall
Indoor/Outdoor	Indoor					Outdoor-weather resistant

Specifications

Pick Up Pattern	Omni-directional, within 50' diameter circle					
Type	Electret Condenser					
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL					
Frequency Response	300 Hz to 8 kHz					
Output	Line level (-70 dBV to + 10 dBV, 1 kΩ @ 1 kHz)					
Current Drain	10 mA					
Supply Voltage	12 Vdc					
Housing	High impact anti static ABS			Stainless steel faceplate Single gang electrical box (not included)		Single gang weather resistant bell box
Dimensions	4" dia x 1 ½" H		2 ⅝" L x 2 ½" W x 1 ⅛" H		2 ¾" W x 4 ½" H	
Weight	3.5 oz	4 oz	1.5 oz	2.5 oz	4 oz	11.5 oz
Compatibility	CCTV, DVR					
UL Listed	x					

Mic Level



Mic Level						
Model	A-ML	B-ML	C-ML	D-ML	DV-ML	E-ML
LE Product Number	LE-770	LE-771	LE-772	LE-778	LE-769	LE-775
Microphone Mounting	Ceiling		Special application	Wall	Wall-vandal resistant	Wall
Indoor/Outdoor	Indoor					Outdoor-weather resistant

Specifications

Pick Up Pattern	Omni-directional, within 30' diameter circle					
Type	Electret Condenser					
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL					
Frequency Response	300 Hz to 8 kHz					
Output	Mic level					
Output Impedance	1 kΩ					
Current Drain	0.8 mA					
Supply Voltage	1.8 - 4.5 Vdc					
Housing	High impact anti static ABS		No housing	Stainless steel faceplate Single gang electrical box (not included)		Single gang weather resistant bell box
Dimensions	4" dia x 1 ½" H		0.53" dia x 1.3" L	2 ¾" W x 4 ½" H		2 ¾" W x 4 ½" H x 2 ⅝" D
Weight	7.5 oz	8 oz	4.5 oz	6.5 oz	8 oz	15.5 oz
Compatibility	IP camera with Mic level audio input					
UL Listed	-					



100 Series - One Way Listen

Audio Monitoring Systems



Listen Live + Playback Audio					
Model	ASK-4® kit #101	ASK-4® kit #101-RM	ASK-4® kit #101B	ASK-4® kit #101C	ASK-4® kit #101D-V
LE Product Number	LE-015	LE-018	LE-361	LE-362	LE-366
Microphone Mounting	Ceiling		High ceiling	Special application	Wall-vandal resistant
Indoor/Outdoor	Indoor				
Number Of Microphone	1				
Rack Mounted	-	x		-	
Includes					
Microphone	Verifact® A		Verifact® B	Verifact® C	Verifact® D-V
Base Station	APR-1				
Cable	Dual RCA cable				
Power Supply	AD-1 12 Vdc, 500 mA				

Specifications

Microphone			
Pick Up Pattern	Omni-directional, within 30' diameter circle		
Type	Electret condenser		
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL		
Frequency Response	50 Hz to 15 kHz		
Output	Line level (0 dBV, 600 Ω @ 1 kHz)		
Current Drain	10 mA		
Supply Voltage	12 Vdc		
Microphone Housing	High impact anti static ABS		Stainless steel faceplate Single gang electrical box (not included)
Dimensions	4" dia x 1 ½" H	2 ¾" L x 2 ½" W x 1 ¼" H	2 ¾" W x 4 ½" H
Weight	3.5 oz	1.5 oz	4 oz
Base Station			
Monitor Output Power	1W @ 8 Ω		
Audio Input Impedance	10K		
Frequency Response	100 Hz to 10 kHz		
Headphone Impedance	8 to 600 Ω		
Universal Power Supply	12 Vdc, 500 mA		
Dimensions	8 ¾" L x 5 ¾" W x 1 ¾" H	19" L x 3 ½" W x 8 ¼" D	8 ¾" L x 5 ¾" W x 1 ¾" H
Weight	1 lb 6 oz	2 lbs 6 oz	1 lb 6 oz
Compatibility	CCTV, DVR		
UL Listed	x		

100 Series - One Way Listen

Audio Monitoring Systems



Listen Live + Playback Audio					
ASK-4® kit #101E	ASK-4® kit #102	ASK-4® kit #102-RM	ASK-4® kit #104	ASK-4® kit #108	ASK-4® kit #122
LE-363	LE-016	LE-019	LE-394	LE-395	LE-393
Wall			Ceiling		
Outdoor-weather resistant	Indoor				
1			4	8	2
-		x	-		
Includes					
Verifact® E	Verifact® D		Verifact® A		
APR-1			AP-4	AP-8	AP-2
Dual RCA cable					
AD-1 12 Vdc, 500 mA					

Specifications

Microphone				
Omni-directional, within 30' diameter circle				
Electret condenser				
-45 dBV/Pa 1 Pa = 94 dB SPL				
50 Hz to 15 kHz				
Line level (0 dBV, 600 Ω @ 1 kHz)				
10 mA				
12 Vdc				
Single gang weather resistant bell box	Stainless steel faceplate Single gang electrical box (not included)		High impact anti static ABS	
2 ¾" W x 4 ½" H x 2 ⅝" H	2 ¾" W x 4 ½" H		4" dia x 1 ½" H	
11.5 oz	2.5 oz		3.5 oz	
Base Station				
1W @ 8 Ω				
10K				
100 Hz to 10 kHz				
8 to 600 Ω				
12 Vdc, 500 mA				
8 ¼" L x 5 ¾" W x 1 ⅝" H	19" L x 3 ½" W x 8 ¼" D		6 ⅝" W x 8 ⅝" L x 2 ⅝" H	
1 lb 6 oz	2 lbs 6 oz		1 lb 7 oz	1 lb 10 oz 1 lb 5 oz
CCTV, DVR				
x				

300 Series - Interface Adapters

Audio Monitoring Systems



	Audio Recording			Audio Over PoE	
Model	ASK-4® kit #300	ASK-4® kit #302	ASK-4® kit #304	ASK-4® kit #350	ASK-4® kit #370
LE Product Number	LE-047	LE-374	LE-292	LE-345	LE-347
Mounting	Ceiling				
Indoor/Outdoor	Indoor				
Number Of Microphone	1	2	4	1	
Includes					
(Speaker) Microphone	Verifact® A				AOP-SP-CF
Interface	IF-1 (LE-328)	IF-2 (LE-273)	IF-4 (LE-288)	IF-PK (LE-520)	
Cable	RCA cable, 3.5 mm stereo cable and adapters	RCA cable and adapters		3.5 mm stereo cables	
Power Supply	AD-1 12 Vdc, 500 mA			PoE (802.3af) or 12 Vdc	

Specifications

Microphone				
Pick Up Pattern	Omni-directional within 30' diameter circle			
Type	Electret condenser			
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			
Frequency Response	50 Hz to 15 kHz			
Output	Line level (0 dBV, 600 Ω @ 1 kHz)			
Current Drain	10 mA			200 mA
Supply Voltage	12 Vdc			
Microphone Housing	High impact anti static ABS			Steel
Dimensions	4" dia x 1 ½" H			12 ⅞" dia
Weight	3.5 oz			2 lbs 12 oz
Interface				
Input	Line level			
Audio Input Impedance	17.5k Ω @ 1 kHz			
Audio Output Impedance	600 Ω @ 1 kHz			
Audio Output Gain	Adjustable, up to +10 dB			
Power Requirements	+12 Vdc, 500 mA		PoE (802.3af) or 12 Vdc, 2A Ext	
Material	High impact anti static ABS		Black anodized Al 14 Ga	
Ethernet Connectors	-		RJ-45 CAT5 input and output jacks	
Connectors	Terminal block, RCA jack, 3.5 mm stereo jack, DC jack	Terminal blocks, RCA jacks, DC jack		RJ-45, DC jack, Terminal block for microphone/speaker
Voltage Input	12 Vdc		36V - 57V	
Operating Temperature	0 to 70°C		-20°C to +65°C	
Dimensions	6 ⅞" L x 4 ⅝" W x 1 ¼" H		11 ½" L x 4 ¾" W x 1 ¼" H	
Weight	5.5 oz	7 oz	12.5 oz	
Compatibility	DVR, IP camera, encoder		IP camera, encoder	
UL Listed	-		x	

400 Series - Expanded Zone Coverage

Audio Monitoring Systems



	Expanded Zone Coverage	
Model	ASK-4® kit #401	ASK-4® kit #431
LE Product Number	LE-009	LE-368
Mounting	Ceiling	
Indoor/Outdoor	Indoor	
Number Of Microphone	2	
Includes		
Microphone	Verifact® A	
Base Station/Interface	APR-1	IF-1
Microphone Mixers	RN-2	
Cable	Dual RCA cable	RCA cable and adapters
Power Supply	AD-1 12 Vdc, 500 mA	

Specifications

Microphone		
Pick Up Pattern	Omni-directional, within 30' diameter circle	
Type	Electret condenser	
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL	
Frequency Response	50 Hz to 15 kHz	
Output	Line level (0 dBV, 600 Ω @ 1 kHz)	
Current Drain	10 mA	
Supply Voltage	12 Vdc	
Microphone Housing	High impact anti static ABS	
Dimensions	4" dia x 1 ½" H	
Weight	3.5 oz	
	Base Station	Interface
Monitor Output Power	1W @ 8 Ω	-
Audio Input Impedance	10 kΩ	20 kΩ
Frequency Response	100 Hz to 10 kHz	50 Hz to 15 kHz
Output Impedance	600 Ω @ 1 kHz	600 Ω @ 1 kHz
Universal Power Supply	12 Vdc, 500 mA	
Dimensions	8 ¼" L x 5 ¾" W x 1 ¾" H	6 ⅝" L x 4 ⅝" W x 1 ¼" H
Weight	1 lb 6 oz	5.5 oz
Audio Mixer		
Input Impedance	20 kΩ	
Output Impedance	1 kΩ @ 1 KHZ	
Output Gain	+5 dB	
Input/Output Connections	Terminal blocks	
Dimensions	6 ⅝" L x 4 ⅝" W x 1 ¼" H	
Weight	5.5 oz	
Compatibility	CCTV, DVR	DVR, IP camera, encoder
UL Listed	-	



500 Series - Talk Listen

Audio Monitoring Systems



	Talk/Listen		
Model	ASK-4® kit #501	ASK-4® kit #501-TLI-CF	ASK-4® kit #501-TLI-CS
LE Product Number	LE-025	LE-371	LE-373
Speakerphone Mounting	Wall	Flush ceiling	Surface ceiling
Indoor/Outdoor	Indoor		
Includes			
Speaker/Microphone	TLM-W	TLI-CF	TLI-CS
Base Station	AP-1TB		
Cable	Dual RCA cable		
Power Supply	AD-1 12 Vdc		

Specifications

Microphone		
Pick Up Pattern	Omni-directional, within 30' diameter circle	
Type	Electret condenser	
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL	
Frequency Response	50 Hz to 15 kHz	
Output	Line level (0 dBV, 600 Ω @ 1 kHz)	
Current Drain	10 mA	
Supply Voltage	AD-1 12 Vdc, 500 mA	
Speaker		
Speaker Power Output	7W	20W
Input	70V constant	
Frequency Response	30 Hz to 20 kHz	60 Hz to 17 kHz
Speaker Impedance	8 Ω	
Speaker Magnet	1.7 oz	10 oz
Speaker Size	2.5"	8"
Dimensions	Faceplate: 6.8" L x 5.12" W x 0.5" D Backbox: 6.92" L x 5.12" W x 1.62" D	Faceplate: 12 7⁄8" dia x 2 ¾" D Mounting ring: 12 ¾" x 3" D
Weight	13 oz	4 lbs 8.5 oz
Base Station		
Monitor Output Power	1W @ 8 Ω	
Audio Input Impedance	10 kΩ	
Frequency Response	100 Hz to 10 kHz	
Headphone Impedance	8 to 600	
Universal Power Supply	12 Vdc, 500 mA	
Dimensions	8 ¼" L x 5 ¾" W x 1 ⅝" H	
Weight	2 lbs 3 oz	
Compatibility	CCTV, DVR	
UL Listed	x	-

600 Series - Mute Switch

Audio Monitoring Systems



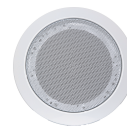
	Audio Monitoring With Mute Switch	
Model	ASK-4® kit #601	ASK-4® kit #631
LE Product Number	LE-380	LE-381
Microphone Mounting	Ceiling	
Indoor/Outdoor	Indoor	
Number Of (Speaker) Microphone	1	
Includes		
(Speaker) Microphone	Verifact® A	
Base Station/Interface	APR-1	IF-1
Mute Switch	MS-1	
Cable	Dual RCA cable	3.5 mm stereo cable, RCA cable and adapters
Power Supply	AD-1 12 Vdc	

Specifications

Microphone		
Pick Up Pattern	Omni-directional, within 30' diameter circle	
Type	Electret condenser	
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL	
Frequency Response	50 Hz to 15 kHz	
Output	Line level (0 dBV, 600 Ω @ 1 kHz)	
Current Drain	10 mA	
Supply Voltage	AD-1 12 Vdc, 500 mA	
Housing	High impact anti static ABS	
Dimensions	4" dia x 1 ½" H	
Weight	3.5 oz	
	Base Station	Interface
Monitor Output Power	1W @ 8 Ω	-
Audio Input Impedance	10 kΩ	20 kΩ
Frequency Response	100 Hz to 10 kHz	50 Hz to 15 kHz
Audio Output Impedance	600 Ω @ 1 kHz	
Universal Power Supply	12 Vdc, 500 mA	
Dimensions	8 ¼" L x 5 ¾" W x 1 ¾" H	6 ⅛" L x 4 ⅝" W x 1 ¼" H
Weight	1 lb 6 oz	5.5 oz
Switch		
Supply Voltage	12 Vdc	
Faceplate	Stainless steel	
Backbox	Single gang electrical box (not included)	
Dimensions	2 ¾" W x 4 ½" H	
Weight	2.5 oz	
Compatibility	CCTV, DVR	DVR, IP camera, encoder
UL Listed	-	

VeriFact® Speaker Microphones For IP Camera

Ceiling Mount



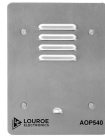
Model	VERIFACT® 555	VERIFACT® 550	VERIFACT® 665	VERIFACT® 650
LE Product Number	LE-555	LE-550	LE-665	LE-650
Speakerphone Mounting	Surface ceiling	Flush ceiling		
Indoor/Outdoor	Indoor			

Specifications

Microphone				
Pick Up Pattern	Omni-directional, within 30' diameter circle			
Type	Electret condenser			
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			
Frequency Response	40 Hz to 15 kHz			
Output	Line level (0 dBV, 50 Ω @ 1 kHz)			
Current Drain	600 mA		1A	
Supply Voltage	Nominally 12 Vdc (10-16 Vdc)			
Speaker				
Speaker Output Power	2.5W @ 8 Ω		8W	
Input	Line level 10 Ω @ 1 kHz			
Frequency Response	300 Hz to 400 kHz		180 Hz - 20 kHz	
Speaker Magnet	Neodymium			
Speaker Size	4"		6.5"	5.5"
Housing				
Material	Steel			
Weight	2.1 lbs		3.8 lbs	3.3 lbs
Dimensions	Grill: 12 7/8" dia	Grill: 12 7/8" dia Backbox: 12 7/8" dia x 3" H	9" dia x 5" D	7.5" dia x 5" D
Compatibility	DVR, IP camera, encoder			
UL Listed	x			

VeriFact® Speaker Microphones For IP Camera

Wall Mount



Model	VERIFACT® 530	VERIFACT® 540	VERIFACT® 535	VERIFACT® 545	TLO-A
LE Product Number	LE-530	LE-540	LE-535	LE-545	LE-087
Speakerphone Mounting	Wall				Bracket
Indoor/Outdoor	Outdoor/Indoor-partially weather resistant				Outdoor-weather resistant

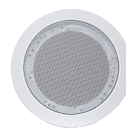
Specifications

Microphone			
Pick Up Pattern	Omni-directional, within 30' diameter circle		
Type	Electret condenser		
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL		
Frequency Response	40 Hz to 15 kHz		
Output	Line level (0 dBV, 50 Ω @ 1 kHz)		
Current Drain	600 mA		2A
Supply Voltage	Nominally 12 Vdc (10-16 Vdc)		24 Vdc
Speaker			
Speaker Output Power	2.5W @ 8 Ω		40W
Input	Line level 10 Ω @ 1 kHz		
Frequency Response	300 to 400 kHz		65 Hz to 17 Khz
Speaker Magnet	Neodymium		Ceramic
Speaker Size	2"	4"	NA
Housing			
Material	Stainless steel		Anti-fire ABS Plastic
Weight	1.4 lbs	1.6 lbs	4 lbs
Dimensions	Faceplate: 6.5" H x 4.8" W	Faceplate: 8" H x 6 ¼" W Backbox: 8" L x 6 ¼" W x 2 ¾" D	8.5" dia x 11" D
Compatibility	DVR, IP camera, encoder		
UL Listed	x		



DigiFact® IP Network Speaker Microphones

Ceiling Mount



Model	DIGIFACT® 855	DIGIFACT® 851	DIGIFACT® 830	DIGIFACT® 825
LE Product Number	LE-855	LE-851	LE-830	LE-825
Speakerphone Mounting	Surface ceiling	Flush Ceiling		
Indoor/Outdoor	Indoor			

Specifications

Microphone				
Pick Up Pattern	Omni-directional, within 30' diameter circle			
Type	Electret condenser			
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			
Frequency Response	40 Hz to 15 kHz			
Output	RTSP stream {Line level 0 dBV, 600 Ω @ 1 kHz}			
Current Drain	1.5 A @ 5VDC			
Supply Voltage	PoE IEEE802.3af OR 12vdc 1A			
Speaker				
Speaker Output Power	2.5W @ 8 Ω		8W	
Input	RTSP stream {Line level 0 dBV, 600 Ω @ 1 kHz}			
Frequency Response	300 to 400 kHz			
Speaker Magnet	Neodymium			
Speaker Size	4"		6.5"	5.5"
Network Audio				
Audio Streaming	Two way (half and full duplex)			
Audio Compression	PCM, G.711 a-Law, G.711 mu-Law, G.726-40, AAC			
Supported Protocols	ONVIF Profile T, IPv4, HTTPS, RTSP, RTP, TCP, SSH			
Application Prog Interface	Open API for software integration			
Audio Analysis and Classification	Decibel level threshold - Threat detection			
Event Triggers	Audio analytics, audio level			
Event Actions	HTTP Post, TCP notification, external output activation, pre and post-alarm audio recording			
Housing				
Material	Steel			
Weight	2.1 lbs		3.8 lbs	3.3 lbs
Dimensions	Faceplate: 12 ⁷ / ₈ " dia Backbox: 12 ³ / ₈ " dia x 3" H	Grill: 12 ⁷ / ₈ " dia Backbox: 12 ³ / ₈ " dia x 3" H	9" dia x 5" D	7.5" dia x 5" D
Compatibility	ONVIF Profile "T" compatibility			
UL Listed	x			

DigiFact® IP Network Speaker Microphones

Wall Mount



Model	DIGIFACT® 880	DIGIFACT® 890	DIGIFACT® 885	DIGIFACT® 895
LE Product Number	LE-880	LE-890	LE-885	LE-895
Speakerphone Mounting	Wall			
Indoor/Outdoor	Outdoor/Indoor-partially weather resistant			

Specifications

Microphone	
Pick Up Pattern	Omni-directional, within 30' diameter circle
Type	Electret condenser
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL
Frequency Response	40 Hz to 15 kHz
Output	RTSP stream {Line level 0 dBV, 600 Ω @ 1 kHz}
Current Drain	1.5 A @ 5VDC
Supply Voltage	PoE IEEE802.3af OR 12vdc 1A
Speaker	
Speaker Output Power	2.5W @ 8 Ω
Input	RTSP stream {Line level 0 dBV, 600 Ω @ 1 kHz}
Frequency Response	300 to 400 kHz
Speaker Magnet	Neodymium
Speaker Size	2" 4"
Network Audio	
Audio Streaming	Two way (half and full duplex)
Audio Compression	PCM, G.711 a-Law, G.711 mu-Law, G.726-40, AAC
Supported Protocols	ONVIF Profile T, IPv4, HTTPS, RTSP, RTP, TCP, SSH
Application Prog Interface	Open API for software integration
Audio Analysis and Classification	Decibel level threshold - Threat detection
Event Triggers	Audio analytics, audio level
Event Actions	HTTP Post, TCP notification, external output activation, pre and post-alarm audio recording
Housing	
Material	Stainless steel
Weight	1.4 lbs 1.6 lbs
Dimensions	Faceplate: 6.5" H x 4.8" W Faceplate: 8" H x 6 ¼" W Backbox: 8" L x 6 ¼" W x 2 ¾" D
Compatibility	ONVIF Profile "T" compatibility
UL Listed	x



Speaker Microphones For Louroe Base Stations

Speaker Microphones



Model	TLI-CS	TLI-VR-SQ	TLI-CF	TLI-VR-F
LE Product Number	LE-226	LE-218	LE-227	LE-216
Speakerphone Mounting	Surface ceiling		Flush ceiling	
Indoor/Outdoor	Indoor			

Specifications

Microphone				
Type/Pick Up Pattern	Electret condenser/omni-directional, within 30' diameter circle			
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			
Frequency Response	40 Hz to 15 kHz			
Output	Line level (0 dBV, 600 Ω @ 1 kHz)			
Current Drain	10 mA			
Supply Voltage	12 Vdc			
Speaker				
Input/Distribution	70V Line/Constant-voltage			
Speaker Power Handling	15W max. (308 Ω @ 70V)			
Frequency Response	65 Hz to 17 kHz			
Speaker Magnet	5 oz Ceramic			
Speaker Size	8"			
Housing				
Material	Steel	Vandal resistant steel	Steel	
Dimensions	Faceplate: 12 7⁄8" dia x 2 3⁄4" D Mounting ring: 12 3⁄8" dia x 3" D	(Incl. flange) 13" H x 11" W x 4" D	Faceplate: 12 7⁄8" dia x 2 3⁄4" D Backbox: 12 1⁄4" dia x 4"D	
Weight	2 lbs 10 oz	5 lbs 14 oz	2 lbs	3 lbs 10 oz
Compatibility	Louroe 2-Way Base Stations			
UL Listed	-			

Speaker Microphones For Louroe Base Stations

Speaker Microphones



Model	TLM-E	TLMC-W	TLI	TLM-W
LE Product Number	LE-168	LE-169	LE-080	LE-007
Speakerphone Mounting	Wall			Wall
Indoor/Outdoor	Outdoor-weather resistant		No housing	Indoor

Specifications

Microphone				
Type/Pick Up Pattern	Electret condenser/omni-directional, within 30' diameter circle			
Sensitivity	-45 dBV/Pa 1 Pa = 94 dB SPL			
Frequency Response	40 Hz to 15 kHz			
Output	Line level (0 dBV, 600 Ω @ 1 kHz)			
Current Drain	10 mA	40 mA	10 mA	
Supply Voltage	12 Vdc			
Speaker				
Input/Distribution	70V Line/Constant-voltage			
Speaker Power Handling	7W max. (715 Ω @ 70V)		20W (245 @ 70V)	7W max. (715 Ω @ 70V)
Frequency Response	30 Hz to 20 kHz	30 Hz to 20 kHz	65 Hz to 17 kHz	30 Hz to 20 kHz
Speaker Magnet	1.73 oz Ceramic		5 oz Ceramic	1.73 oz Ceramic-
Speaker Size	4"			2.5"
Housing				
Material	Stainless Steel		-	High impact ABS
Dimensions	Faceplate: 8" H x 6 ¼" W Backbox: 8" H x 6 ¼" W x 2 ¾" D	Faceplate: 6 ¼" H x 8" W x 4 ½" D Backbox: 8" H x 6 ¼" W x 2 ¾" D	8" dia x 2 ⅝" D	Faceplate: 6.8" L x 5.12" W x 0.5" D Backbox: 6.92" L x 5.12" W x 1.62" D
Weight	1 lb 6 oz	2 lbs	1 lb 11 oz	13 oz
Compatibility	Louroe 2-Way Base Stations			
UL Listed	-			



One Way Listen

Audio Base Stations



Model	APR-1	APR-1-RM	AP-2	AP-2-RM
LE Product Number	LE-146	LE-137	LE-432	LE-147
Zones	1		2	
Rack Mounted	-	x	-	x

Specifications

Monitor Output Power	1W @ 8 Ω			
Audio Input Impedance	10K			
Frequency Response	100 Hz to 10 kHz			
Headphone Impedance	8 to 600 Ω			
Universal Power Supply	12 Vdc, 500 mA			
Dimensions	8 ¼" L x 5 ¾" W x 1 ¾" H	19"L x 3 ½" W x 8 ¼" D	6 ⅝" W x 8 ⅝" L x 2 ½" H	19"L x 3 ½" W x 8 ⅝" D
Weight	1 lb 6 oz	2 lbs 6 oz	1 lb 5 oz	2 lbs 13 oz
Compatibility	CCTV, DVR			
UL Listed	x			



Model	AP-4	AP-4-RM	AP-8	AP-8-RM
LE Product Number	LE-434	LE-166	LE-425	LE-167
Zones	4		8	
Rack Mounted	-	x	-	x

Specifications

Monitor Output Power	1W @ 8 Ω			
Audio Input Impedance	10K			
Frequency Response	100 Hz to 10 kHz			
Headphone Impedance	8 to 600 Ω			
Universal Power Supply	12 Vdc, 500 mA			
Dimensions	6 ⅝" W x 8 ⅝" L x 2 ½" H	19"L x 3 ½" W x 8 ⅝" D	6 ⅝" W x 8 ⅝" L x 2 ½" H	19"L x 3 ½" W x 8 ⅝" D
Weight	1 lb 7 oz	2 lbs 13.5 oz	1 lb 10 oz	3 lbs
Compatibility	CCTV, DVR			
UL Listed	x			

Two-Way Listen-Talk

Audio Base Stations



Model	AP-1TB	AP-1TB-RM	AP-4TB	AP-4TB-RM	AP-8TB	AP-8TB-RM
LE Product Number	LE-001	LE-148	LE-322	LE-342	LE-323	LE-344
Zones	1		4			
Rack Mounted	-	x	-	x	-	x

Specifications

Monitor Output Power	1W @ 8 Ω					
Audio Input Impedance	10K					
Frequency Response	100 Hz to 10 kHz					
Headphone Impedance	8 to 600 Ω					
Power Supply	12 Vdc, 500 mA		115 Vac			
Dimensions	8 1/4" L x 5 3/4" W x 1 3/8" H	19" L x 3 1/2" W x 8 1/4" D	12 1/2" L x 10 1/4" W x 2 1/2" H	19" L x 3 1/2" W x 10 1/4" D	12 1/2" L x 10 1/4" W x 2 1/2" H	19" L x 3 1/2" W x 10 1/4" D
Weight	2 lbs 3 oz	3 lbs 9 oz	8 lbs 6 oz	9 lbs 9 oz	8 lbs 12 oz	8 lbs 14 oz
Compatibility	DVR					
UL Listed	x		-			



Adapters

Audio Adapters



	Audio Interface				Interface + Power Extractor
Model	IF-1	IF-2	IF-4	IF-8	IF-PX
LE Product Number	LE-328	LE-273	LE-288	LE-289	LE-520

Specifications

Input (3-pin terminal block)	Line level			
Audio Input Impedance	18 kΩ	20 kΩ		10 MΩ
Audio Output Impedance	600 Ω @ 1 kHz	400 Ω @ 1 kHz	600 Ω @ 1 kHz	
Audio Output Gain	Adjustable, up to +10 dB			
Power Requirements	+12 Vdc, 500 mA			PoE (802.3af) or 12 Vdc, 2A Ext
Material	High impact ABS			Black anodized Al 14 Ga
Ethernet Connectors	-			RJ-45 CAT5 input and output jacks
Connectors	Terminal block, RCA jack, 3.5 mm stereo jack, DC jack	Terminal blocks, RCA jacks, DC jack		Terminal block, RCA jack, adapters, DC jack
				RJ-45, DC jack, Terminal block for microphone/speaker
Voltage Input	12 Vdc			36V - 57V
Dimensions	6 ⅛" L x 4 ⅝" W x 1 ⅜" H		11 ½" L x 4 ¾" W x 1 ½" H	
Weight	5.5 oz	7 oz	12.5 oz	13.5 oz
Operating Temperature	0 to 70°C			-20°C to +65°C
Compatibility	DVR, IP camera, encoder, recorder			IP camera, encoder
UL Listed	-			x

Adapters

Audio Adapters



	Microphone Mixers		Distribution Amplifier	Sound Activated Switch
Model	RN-2	MLA-4	DA-4	SA-1A
LE Product Number	LE-110	LE-217	LE-224	LE-230

Specifications

Input Impedance	20 kΩ	18 kΩ	15 kΩ	10 kΩ
Input Level	Line level			
Output Impedance	1 kΩ	600 Ω		
Output Level	Line level (0 dBV, 1 kΩ @ 1 kHz)			
Output Gain	+5 dB	+10 dB max gain adjustable	+15 dB	
Frequency Response	100 Hz to 10 kHz			
Current Drain	10 mA	25 mA	25 mA	70 mA
Relay Contact	-			5A @ 277 Vac or 5A @ 30 Vdc
Relay Latch Time	-			0.5 to 60 seconds
Voltage Supply	12 Vdc			
Dimensions	6 ⅛" L x 4" W x 1 ⅜" H	6 ⅛" L x 4 ⅝" W x 1 ⅜" H	6 ⅛" L x 4 ⅝" W x 1 ⅜" H	6 ⅛" L x 4 ⅝" W x 1 ⅜" H
Weight	5.5 oz		8 oz	7 oz
Input/Output Connections	Terminal block	DC jack, Terminal block, RCA	DC jack, RCA	DC jack, Terminal block, RCA
Compatibility	Louroue Base Stations, DVR			
UL Listed	-			



Accessories



Switches			
Model	MS-1	MS-2-REC	HD-10
LE Product Number	LE-331	LE-332	LE-272

Specifications

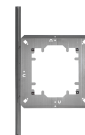
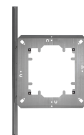
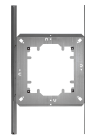
Description	Mute Switch Lighted Rocker Indicator Switches	Mute Switch for Microphone and recorder Lighted Rocker Indicator Switches	Headphone distribution box Single Audio input and 10 Audio outputs jacks for Headphones
Switch Rating	-	9A @ 125 VAC	-
Dimensions	4 1/2" L x 2 3/4" W	4 9/16" L x 4 9/16" W	5 1/8" L x 5 1/8" W x 1 7/8" H
Material	Stainless steel		Plastic



Backbox				
Model	TLMC	TLM-W	AOPSP	ERD-8
LE Product Number	LE-221	LE-028	LE-029	LE-260

Specifications

Description	Plastic backbox of AOP-SP and TLMC for flush mounting	Plastic backbox for TLM-W	18 Ga Aluminum backbox for AOP-SP and TLMC-W	Ceiling mount backbox for TLI-CS
Dimensions	8" H x 6 1/4" W x 2 3/4" D	6.9" H x 5" W x 1.65" D	8" L x 6 1/4" W x 2 3/4" D	12 1/4" dia x 4" D
Material	Plastic		Aluminum	Steel



	Ring		Bridge			Pole Mount Kit
Model	MR-4	MR-8	SSB-2	SSB-6	SSB-5	PMK-875
LE Product Number	LE-265	LE-266	LE-269	LE-264	LE-262	LE-268

Specifications

Description	Mounting ring for TLM-CS	Mounting ring for TLI-CS	Support bridge for TLI to prevent ceiling tile sag	Support bridge for AOP 665 and AOP 830 to prevent ceiling tile sag	Support bridge for AOP 650 and AOP 825 to prevent ceiling tile sag	Pole mounting kit for Digifact E outdoor microphone
Dimensions	7.38" dia x 3" D	12.38" dia x 3" D	23 ¾" H x 14 ½" W			Bracket: 1.5" H x 6.2" W x 2.3" D Strap: 48" L x 0.5" W
Material	Steel					Aluminum/Steel



Accessories



Grill Baffle			
Model	BR-4WS	BR-8WS	VRSC
LE Product Number	LE-261	LE-267	LE-081

Specifications

Description	Ceiling flush speaker grill baffle for TLM-CF with 4" speaker	Ceiling flush speaker grill baffle for TLI-CF with 8" speaker	Square surface mount vandal resistant baffle
Dimensions	7.65" dia	12.87" dia	11" H x 13" W x 4" D
Material	Aluminum		Steel



Power Supplies				
Model	AD-1	AD-3	AD-1U	AD-24
LE Product Number	LE-242	LE-243	LE-335	LE-244

Specifications

Description	Power supply		Universal power supply	Power Supply for TLO-A
Input	100-240 VAC ~50/60 Hz, 0.3A	100-240 VAC ~50/60 Hz, 1.2A	100-240 VAC ~50/60 Hz, 0.3A	1100-240 VAC ~50/60 Hz, 2A
Output	+12 VDC, 500 mA	+24 VDC, 1.5 A	+12 VDC, 500 mA	+24 VDC, 2A



Stereo Headphone	
Model	HP-15-135-B
LE Product Number	LE-225

Specifications

Description	Stereo headphone 8 Ω , 100 mW, with 1/4" plug volume control on each ear
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State Statutes Addressing Audio Monitoring

State	Statute	Party Consent
Alabama	AL Code §13A-11-30	1
Alaska	§42.20.310	1
Arizona	AZ Stat §13-3005	1
Arkansas	§5-60-120	1
California	CA Penal Code §631	ALL
Colorado	CO Stat §18-9-303	1
Connecticut	CT Stat §52-570d	ALL
Delaware	DE Code Title 11, §2402(c)(4)	1
DC	DC Code §52-541 & §23-542	1
Florida	FL Stat Ch 934.03	ALL
Georgia	GA Code §16-11-62	1
Hawaii	HI Stat §803-42, 711-1111	1
Idaho	ID Code §18-6702	1
Illinois	720 ILCS 5/14-2	ALL
Indiana	IN Code §35-33.5-1-5	1
Iowa	IA Code §727.8	1
Kansas	KS Stat §21-6101	1
Kentucky	KY Stat §526.010	1
Louisiana	LA Stat §15:1303	1
Maine	ME Title 15, §709	1
Maryland	MD Code §10-402	ALL
Massachusetts	MA Ch 272, §99	ALL
Michigan	MI Laws §750.539c	ALL
Minnesota	MN Stat §626A.02	1
Mississippi	MS Code §41-29-501 to 537	1
Missouri	MO Stat §542.402	1

State	Statute	Party Consent
Montana	MT Code §45-8-213	ALL
Nebraska	NE Stat §86-290	1
Nevada	NV Stat §200.620	1/Court Order
New Hampshire	NH Stat §570-A:2	ALL
New Jersey	NJ Stat §2A:156A-3&4	1
New Mexico	NM §30-12-1	1
New York	NY Penal Law §250.00, 250.05	1
North Carolina	NC Stat §15A-287; §14-155	1
North Dakota	ND Code §12.1-15-02	1
Ohio	OH Code §2933.52	1
Oklahoma	13 OK St. §176.2 -4	1
Oregon	OR Stat §165.540, 165.543 & §133.005	1
Pennsylvania	18 PA Stat §5703 to 5704	ALL
Rhode Island	RI Gen Laws §11-35-21, §12-5.1	1
South Carolina	SC Code §17-30-20	1
South Dakota	SD Codified Laws §23A-35A-20	1
Tennessee	TN Code §39-13-605	1
Texas	TX Penal Code §16.02	1
Utah	UT Code §77-23a-4	1
Vermont	No VT Statutes Address Monitoring	
Virginia	VA Code §19.2-62	1
Washington	WA Code §9.73.030	ALL
West Virginia	WV Code §62-1D-3	1
Wisconsin	WI Stat §968.31	1
Wyoming	WY Stat §7-3-701	1

(1): From United States Code, Title 18, **it shall not be unlawful...**for a person...to intercept a wire, oral, or electronic communication **where** such person is a party to the communication or **where** one of the parties to the communication has given prior consent to such interception. Section 2510(2) regarding rights of privacy.

(All): all party consent states require the consent of each individual involved in the communication.

Statutes current as of 2020

Notes



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