

SILYNX INDUSTRIAL PRODUCTS



In heavy industry, such as mining, paper manufacturing, the oil industry, road construction, and power generation, work environments are loud and noisy. Hearing protection is essential. But for safety and coordination reasons, that hearing protection cannot be at the cost of communicating on a job site. SILYNX provides systems — designed for the most rugged environments — that provide hearing protection and communications (both face-to-face and via two-way radios) in the industry's smallest, lightest, and most affordable system. No longer do you have to decide between protecting your hearing and communicating...SILYNX enables you to effectively do both.



CLARUS XPR



CLARUS FX2

CLARUS XPR and **CLARUS FX2** are ideal solutions for workers who need to maintain their natural hearing ability while wearing hearing protection. In addition to an in-ear microphone, both systems incorporate two external microphones featuring a hear-thru functionality that naturally and clearly reproduce sounds and conversations from outside the headset back into the ear canal, while compressing harmful noise to safe levels. Workers will find the ultra lightweight ear buds a welcome change from hot and heavy ear muffs.

CLARUS XPR incorporates in-line quick disconnects in the cabling for adaptability to different headsets and radios as well as for situations where snag hazards are of concern.

CLARUS FX2 is the industry's most cost effective in-ear headset, combining **CLARUS XPR** electronics, but without the Quick Disconnect feature in the cabling.



CLARUS PRO



CLARUS PRO LITE

CLARUS PRO and **CLARUS PRO LITE** are unique noise cancelling, hearing protection headset systems designed to meet the needs of today's industrial professional. With Silyn's proprietary Hear-Thru technology, this product is ideal for those who need hearing protection for long periods of time. The ultra lightweight (4g) earbuds provide 25NRR hearing protection; being nicely flush in the user's "concha bowl" they remain comfortable throughout the day, unlike ear muffs which get uncomfortably hot and propagate perspiration. The low profile nature of the ear buds, combined with Silyn's proprietary hear-thru technology means that it can be worn all day...on the floor, during breaks, and especially during conversations with colleagues and team members.

CLARUS PRO connects to all models of smartphones, so you can even take phone calls while wearing it. There are also accessory cables that enable inter-operability between the **CLARUS PRO** and two-way radios.

CLARUS PRO LITE has the same hearing protection capabilities as the **CLARUS PRO**, but without the communications ability.

FEATURES & BENEFITS

- | IN-EAR MIC
- | SAFE-SOUND HEAR-THRU
- | LIGHTWEIGHT
- | SYSTEM FLEXIBILITY

Silyn's In-Ear Mic technology allows outbound communications without the hassle of an external boom, lapel, or speaker microphone. The in-ear microphone senses the voice present in the actual ear canal not from vibrations of bone. It converts that sound into electronic voice transmission ensuring the clearest audio, from a whisper to a scream, in the most serene to the loudest environments. In-ear mic has been incorporated into CLARUS XPR and CLARUS FX2 models.

PRODUCT COMPARISON

	CLARUS PRO LITE	CLARUS PRO	CLARUS FX2	CLARUS XPR
Model #	CPRO-LT-B-00	CPRO-B-00	CFXITEB	CXPRQH-D CXPRFH-D
Mic Configuration	N/A	In-Line	In-Ear	In-Ear
Hear-Thru Technology	✓	✓	✓	✓
Hearing Protection	NRR 25	NRR 25	NRR 25	NRR 25
# of Two-Way Radios supported	N/A	1	1	1
Headset Connection	FIXED	FIXED	FIXED	QDC [‡] / FIXED
Radio Connections	N/A	3.5MM Jack	FIXED	QDC [‡]
Cell Phone Support	N/A	✓	✓	✓

TECHNICAL SPECIFICATIONS

	HSE	CLARUS PRO	CLARUS FX2	CLARUS XPR
Noise Attenuation	25 NRR	25 NRR	25 NRR	25 NRR
Communications	N/A	Cell Phone	Two-Way Radio	Two-way Radio + Cell phone
Radio Compatibility	N/A	Android / iOS, Motorola	Compatible with most industry two-way radios, including: Motorola, Harris, Kenwood, and Vertex	Compatible with most industry two-way radios, including: Motorola, Harris, Kenwood, and Vertex
Speaker Freq Spectrum	60 Hz to 15,000 Hz	60 Hz to 15,000 Hz	60 Hz to 15,000 Hz	60 Hz to 15,000 Hz
Sound Pressure Level	>115 dB	>115 dB	>115 dB	>115 dB
Max Audio Input Level	0.7Vp-p	0.7Vp-p	0.7Vp-p	0.7Vp-p
Microphone Freq Range	60 Hz to 9,000 Hz	60 Hz to 9,000 Hz	60 Hz to 9,000 Hz	60 Hz to 9,000 Hz
Audio Input Type	Single-ended	Single-ended, fully interfaced with smart phones	Single-ended or Differential	Single-ended or Differential
Hear-Thru System	Impulse noise protection Extended sound localization	Impulse noise protection Extended sound localization	Impulse noise protection Extended sound localization	Impulse noise protection Extended sound localization
Environmental	Military Standard Compliant (MIL-STD-810G)	Military Standard Compliant (MIL-STD-810G)	Military Standard Compliant (MIL-STD-810G)	Military Standard Compliant (MIL-STD-810G)
Power	AAA Alkaline or Lithium	AAA Alkaline or Lithium	AAA Alkaline, AAA Lithium, or provided by radio	AAA Alkaline, AAA Lithium, or provided by radio
Battery Life	90 Hours	90 Hours	90 Hours, or indefinite when powered by radio	90 Hours, or indefinite when powered by radio
Operating Temperature	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C	-20°C to 55°C
Storage Temp (w/o battery)	-40°C to 72°C	-40°C to 72°C	-40°C to 72°C	-40°C to 72°C
Humidity	95%	95%	95%	95%
IP Rating	IP67	IP67	IP67	IP67

PRODUCT INFORMATION

Model #	Description
CXPRQH-D-002	CLARUS XPR control box, removable (QDC) dual in-ear headset, QDC radio lead, includes Motorola APX auxillary cable. Color, Tan.
CXPRQH-D-003	CLARUS XPR control box, removable (QDC) dual in-ear headset, QDC radio lead, includes Motorola XTS auxillary cable. Color, Black.
CFX2ITEB-002	CLARUS FX2 control box, fixed dual in-ear headset, fixed lead, Motorola APX adaptor. Color, Black.
CFX2ITEB-003	CLARUS FX2 control box, fixed dual in-ear headset, fixed lead, Motorola XTS adaptor. Color, Black.
CPRO-B-00	Rugged in-ear hearing protection and audio headset system, with hear-thru technology.
CPRO-LT-00	Rugged in-ear hearing protection system with hear-thru technology.
ERC000017-01	Foam Ear Tips with mesh hygiene barrier, Size - Medium, Color - Black, 3 pairs.
ERC000017-03	Foam Ear Tips with mesh hygiene barrier, Size - Medium, Color - Black, 50 pairs.
AC0015-00	Ear Hook Retainers, 3 pairs.
CA0117-05	Motorola APX / XPR7550 / MTP6550 (TETRA) / SRX220 / XPR7580 / DP4601 Cable Adaptor. Color, Tan.
CA0004-04	Motorola XTS / MTS / Astro PX502A Cable Adaptor. Color, Tan.

*Specifications are subject to change without notice.

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