

eela-audio

Broadcast products

S25

Mobile Reportophone



THE EELA S25 MOBILE REPORTOPHONE

The S25 Reportophone connects to your current or future mobile phone. It has the same features as the world famous S20A for 2-wire phone lines use. If you have used an S20A before, you will be immediately familiar with the features of this truly mobile version. A number of interface cables are available to connect the S25 to the majority of mobile telephones. See cables listed overleaf.

The housing is a heavy-duty but lightweight metal case. Neutrik connectors are used for audio connections, locked XLR (MIC) and 1/4" Jack (HPH) avoids accidentally unplugging. Recording (LINE) in/outputs are also on 1/4" Jack. All audio connections are balanced and filtered against HF pick up. Together with the shielding of the metal case this gives a very good attenuation of all sorts of external noise, enabling the use of a mobile phone in close proximity to the S25.

High signal quality is achieved by using dedicated signal processing (mixing, equalizing and compression) to make optimal use of the available bandwidth. This provides the studio with an exceptionally good sound quality with a minimum of noise and distortion especially when used with HD-voice. The overall signal delay depends solely on the existing delay in the network.

The high-level headphone monitor output provides good communication with the studio, even in noisy environments. The user can adjust his own balance in his headphones between the send signal and the return signal coming from the studio. Setting input levels is very easy with the help of an LED display with a clear good/bad indication (green/red).

Dedicated processors control the state and fast charging / conditioning of the 4 AA size NiMh batteries. A 5 segment blue LED bar indicates the charge-state of the batteries, a flashing led acts as a final reminder. With a one hour fast charge the unit can be used continuously for more than 10 hours, a 5 minute "rush" charge gives you more than one hour of use. Intelligent power management avoids discharge when not in use. Non rechargeable long life batteries can serve as a backup solution. The unit comes with a wide input voltage range power supply with user interchangeable Euro, US and UK style mains plugs. As an option a car battery power cable is available.



Weight: approx. 700 gr. with batteries.
Dimensions (w x h x d): 120 x 48 x 160 mm.

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HD-Voice:

The S25 Reportophone is the perfect tool to use in combination with the AMR-WB HD-voice telephone system.

A growing number of carriers around the world have rolled out HD-voice services based on this G.722 wideband standard that offers a 7 kHz bandwidth.

The combination of the S25 Reportophone a good microphone and a suitable mobile telephone will offer you a very good audio quality at a seasonal price.

The S25 Reportophone can also be used as a high quality “front-end” to record your comment on your Smartphone or tablet.

Cables:

Interface cables are available for a wide variety of mobile telephones, smart phones and tablets:

Older models of Motorola, Panasonic, Philips, Samsung, Sharp, Mitsubishi, LG, Alcatel, Sagem

Nokia: Older models with PopPort connector or 2,5 mm jack.
Latest Nokia phones all use the Nokia AV connector.

Samsung: Minijack, tip, 2 rings, sleeve
Nokia 2,4 mm and Samsung use the same connector but are wired differently.

Sony Ericsson: 2 versions are available with different connectors, see list.

Apple: iPhone 3Gs, iPhone4, iPad.

HTC: Most versions of the HTC Smartphone.

Blackberry: Most versions.

A list of different brands and models is available on www.eela.nl If in doubt please contact us as new models appear almost every week.



EELA S25 REPORTPHONE TECHNICAL INFORMATION:

This information is not in the user manual!



HD-VOICE:

The audio bandwidth of S25 Reportphone in combination with a standard mobile phone is limited by the capacity of the GSM connection: 8 kHz sample rate / 8 bit. The quality is comparable with that of S20A Reportphone as it has the same kind of processing inside. Some people tell us it is even better than POTS.

More and more telephone companies are now offering "HD-voice" / G722.2 also known as AMR-WB ("Adaptive Multirate Wideband"). This system offers 8 kHz bandwidth and is currently available in a number of countries. Some broadcasters are already using it with very good results.

Most modern mobile telephones are equipped with this codec - certainly the more expensive ones - and the S25 Reportphone and EA916 journalist unit are supporting this also.

You can set up such a system with an S25 unit as a stationary hybrid or an EA916 Journalist unit with suitable mobile telephone in the studio. Very soon the new Eela Audio EA816 GSM stationary hybrid supporting HD-Voice will be available too. Preliminary information about the EA816 can be found on www.eela.n/EA816

Available mobile telephones with AMR-WB codec as of August 2012:
(please note this list is not complete)

Nokia:

6720 Classic, E52, E55, 5230, E72, X6, 6700 Slide, E5-00, X5-01, X3 Touch en Type, X3-01 Touch & Type, X3-02 Touch & Type*, N8-00, C7-00, C6-01, C3-01, C5-03, C5-04, E7-00, E6-00, X7-00, Nokia 300, 500, 600, 700, 701, Asha 300, Asha 303, Lumia 710, Lumia 800*

Samsung:

Galaxy Note (GT-N7000), Galaxy S II, Galaxy S Plus, Samsung Galaxy S II

Sony Ericsson:

Elm, Hazel (quiksilver), Xperia Neo, Xperia Pro, Xperia Play, Xperia Mini, Xperia Mini Pro, Xperia Acro, Xperia Active, Xperia Ray, Xperia neo V, Xperia arc S

Alcatel: OT-981A Tribe, OT-990

HTC: Rhyme

Apple: I-phone 5

An updated list of GSM networks supporting HD voice can be found on <http://hdvoicenews.com>

REMARKS ON THE CABLES LIST:

New models of mobile telephones and Smartphone's are introduced almost weekly. Most of the new models are based on the same internal hardware so interfacing stays the same. Nevertheless it is a challenge to keep up with those developments, the list of cables for the S25 and mobile phones is never complete. If in doubt or your model is not in the list please contact us. For the current list see the download pages of the Eela Audio website.

We found that there are different Nokia telephones using the same connector but with different wiring.

The 1100 series, 1600 series and HS47 series requires a slightly different cable than the older HDC5. With the standard HDC5 cable these telephones are not recognised by the S25 Reportphone. We do offer special cables for these telephones, for details see price list. For many mobile phones it is relatively easy to make your own cable. You can contact us for a diagram for your telephone.

The Apple iPhone and iPad do have the same connector as the Nokia AV3,5-series but are wired differently.

BATTERIES:

Important information on NiMH batteries and built-in charger

Always discharge new or really empty batteries before use!

A full discharge / charging cycle will take between 7 - 8 hours for 2000 mAh batteries.

A full charge of 2000 mAh batteries as supplied will allow you the use of minimum of 10 hours.

(We have tested these with high level music on headphones for up to 18 hours)

New S25 Reportphones are shipped with 2700 mAh batteries.

How to get the most out of a set of rechargeable NiMH batteries:

[Download pdf file here](#)

DISABLE THE AUTO-OFF FUNCTION:

Pictures how to disable the auto shut off function. The standard versions of the unit will shut off automatically if not active for approx. 10 minutes. The timer circuit will retrigger if the input level reaches a level between the 2 green LEDs of the level display. If the input level stays below that threshold for approx. 10 minutes the unit will shut down to preserve battery power. You can disable this function by soldering 2 points together.

Also learn how to use the unit as a stationary hybrid (V2 only, SN > 0100).

[Download the pdf file here.](#)

HF SCREENING AGAINST RADIATION OF THE MOBILE PHONE:

The S25 is built with this in mind. The aluminium case is chromium plated on the inside and outside thus forming a Faraday cage. When opening the unit, make sure that you re-establish the contact between the cover and base unit upon assembling. This is done with the 4 screws holding the top cover. Also the connectors on the back must have an electrical connection to the base unit.

The input electronics are specially designed to eliminate the typical radiation noise of the telephone. Always use a symmetric, screened signal cable for the microphone and make sure the screening is connected to pin 1 on both sides. We also found that there is a huge difference between various types of microphones. Popular reporter microphones like the Sennheiser MD21 or MD42 are good as well as the Beyer Dynamic M58 Reporter microphone.

Last update: October 2012

<http://www.eela-audio.com/S25T1>

S25 REPORTOPHONE and EA916 JOURNALIST UNIT

CONNECTION CABLES

* Available functions depend on telephone model used.

51025010	MiniJack		Standard 2,5 mm earphone plug for older versions of: Motorola, Panasonic, Philips, etc.
51025020	HDC5**	Nokia	1600, 2100, 2300, 2600, 2650, 2652, 3210, 3310, 3330, 3410, 3510, 3510i, 3650, 3660, 5210, 6030, 6060, 6510, 6600, 7280, 7380, 7650, 7710 8210, 8310, 8800 8850, 8890, 8890i, 8910 (i), N-gage, QD, 1200, 1208, 2626, 5700, 6290, 7390, E90
51025030	HS5 PopPort	Nokia	3100, 3200, 3220, 3230, 3250, 5070, 5100, 5140(i), 5500, 6020 6021, 6070, 6080, 6100, 6101, 6103, 6111, 6161, 6136, 6151, 6170 6230(i), 6233, 6260, 6280, 6610(i), 6630, 6670, 6680, 6681, 6800, 6810, 6820, 6822, 7200, 7210, 7250, 7250i, 7260, 7270, 7360, 7370 7600, 7610, 7710, 9300(i), 9500, E50, E60, E61, E65, E70, N70, N80, N90, N92 and compatible
51025032	AV 2,5 mm** (HS47)	Nokia	1662, 1650, 1661, 1661, 1680, 2600, 2630, 2710NE, 2760, 3109, 3110, 3120, 3500, 3720, 5200, 5610, 6120, 6121, 6210, 6220, 6267, 6300, 6301, 6500, 6555, 7070, 7100, 7100, 7210, 7310, 7390, 7500, 7510, 7610, 8600, E51, E66, E71, E90, N81, N85, N95 6700, 7020, 7230, 7310, 7500, 7610, E66, E71
51025033	AV 3,5 mm	Nokia	C1, C1-01, C1-02, C3, C5, C5-00, C5-03, C6, C6-01, 2220, 1616, 1800, 2690, 2700CL, 2710NE, 2730, 5130XM, 5220, 5230, 5235, 5310, 5320, 5530XM, 5630, 5730, 5800, 6303, 6500, 6710N, 6720, 6730, 7500, E5, E51, E52, E63, E72, E75, E90, N8, N76, N78, N79, N82, N95, N96, N97, N97 mini, X2, X3, X6, X6CWM
51025040	HDC9P	Nokia	5110, 6110, 6150,, 6210, 6250, 6310, 6310i, 7110, THR850/880
51025060	MiniJack-S**	Samsung	D410, D500, D600, D720, D730, P730, E100, E300, E310, E340, E350, E370, E380, , E530, E610, E630, E700, E720, E730, E760, E770, E800, E820, E850, E860(V), X100, X210, X300, X450, X630, X660(V) X670, X680, X700, X800, Z107, Z110, Z130, Z140, Z500, ZM60, ZV10, ZV30,
51025090	Sony Ericsson		F500i, K500i, K700i, P800, P900, P910i, R310, R320, R380s, R520m, R600, S700i, T28, T29s, T39m, T65, T68, T68i, T100, T200, T230 T300, T310, T600, T610, T630, Z500i, Z200, Z600, Z1010
51025092	Sony Ericsson type 2		Aino, C510, C702, C901, C902, C903, C905, D750i, G502, G700, G700 BE, G705, G900, J100i, J110i, J120i, J220i, J230i, K200i, K220i, K310i, K320i, K510i, K530i, K550i, K550im, K610i, K610im, K618i, K630i, K660i, K750i, K770i, K800i, K810i, K850i, M600i, Naite, P1i, P990i, R300 R, R306 Radio, S312, S500i, Satio, T250i, T270i, T280i, T303, T650i, T700, T707, V630i, V640i, W200i, W205, W300i, W302, W350i, W380i, W395, W508, W550i, W580i, W595, W610i, W660i, W700i, W705, W710i, W715, W760i, W800i W810i, W850i, W880i, W890i, W900i, W902, W910i, W950i, W960i, W980i, W995, Z250i, Z310i, Z320i, Z520i, Z530i, Z550i, Z555i, Z610i, Z710i, Z750i, Z770i, Z780
51025095	Apple HTC Samsung		iPhone 3Gs, iPhone4, iPad Desire, O2, Ameo, Pulse, G2, HD2, MyTouch, V1605, VDA, VPA.OneS/V Galaxy series
51025015	Blackberry	3,5 mm	7105t, 7100i, 7100g, 7130g, 7130c, 7130e, 7250, 7290, 7520, Pearl 8100, 8800, 8820, 8830, 8350i, 8700c, 8700g, 8703e, 8705g

** Nokia HDC5 / AV2,5 and Samsung use the same connector but are wired differently.

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Noka AV series come with 2,5 mm or 3,5mm jack, please check version.