

## Two Microphones in One Body for X-Y Stereo Recording



- A single microphone body with two cardioid condenser capsules that can be rotated freely up to 180 degree in 15 degree detent.
- Can be used as a surround microphone set with two CUW-180

The CUW-180 combines two exceptionally engineered cardioid condenser microphones in one compact body. Each of the two capsules is independently adjustable through any angle up to 180°, with 15° detent, providing a versatile microphone for a variety of X-Y stereo and Surround recording applications. Thanks to precise diaphragm layout of two capsules, the perfect phase coherence between Ch1 and Ch2 is kept even in any angle of two capsules.

It is important to note that two microphone capsules in one body create an ideal stereo configuration because the actual physical design takes into account the effect of the microphone body itself, as opposed to two separate microphones which are not physically designed to work adjacent to one another. The CUW-180 provides ideal X-Y stereo recording of classical ensembles, guitars, brass, drum overheads, etc. The microphone is also well-suited for talk shows with two persons sitting face-to-face, providing fully independent level controls. Each signal is available through the standard AES configuration XLR-5M connector.

For Surround applications, two CUW-180 are ideal for true four-channel recording, providing a conceptually simple method of recording both Front L/R and Rear L/R signals. In the Sanken Surround system, one microphone is used for front L and R, while a second microphone is used for rear SL and SR. The essential phase coherence for L and R is rigidly maintained, while allowing the front and rear dual microphones to be positioned for the particular situation. To add another source for a hard front Center channel, an optional mic holder is available, and Sanken offers a complete line of shotgun microphones which can be utilized for this purpose.

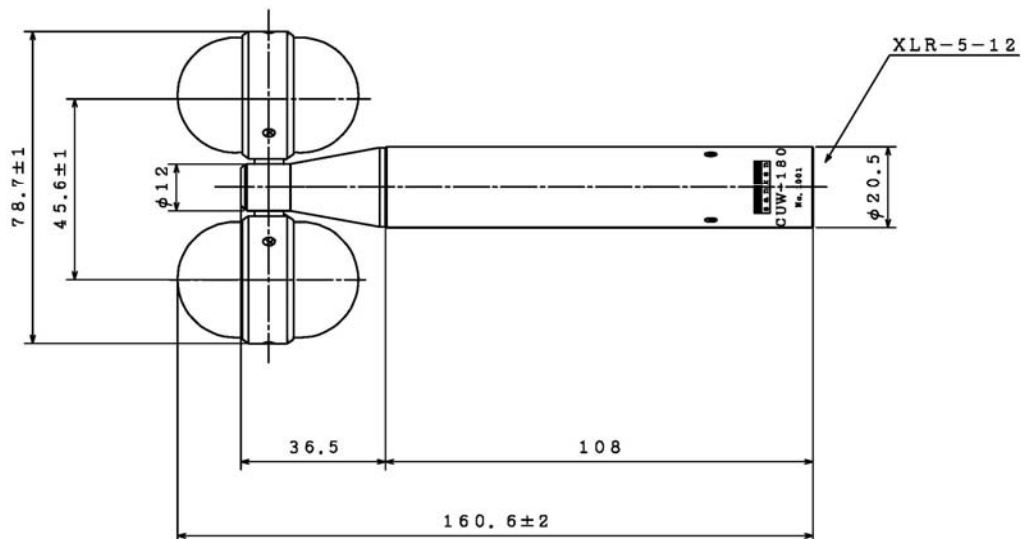


CUW-180 Surround System

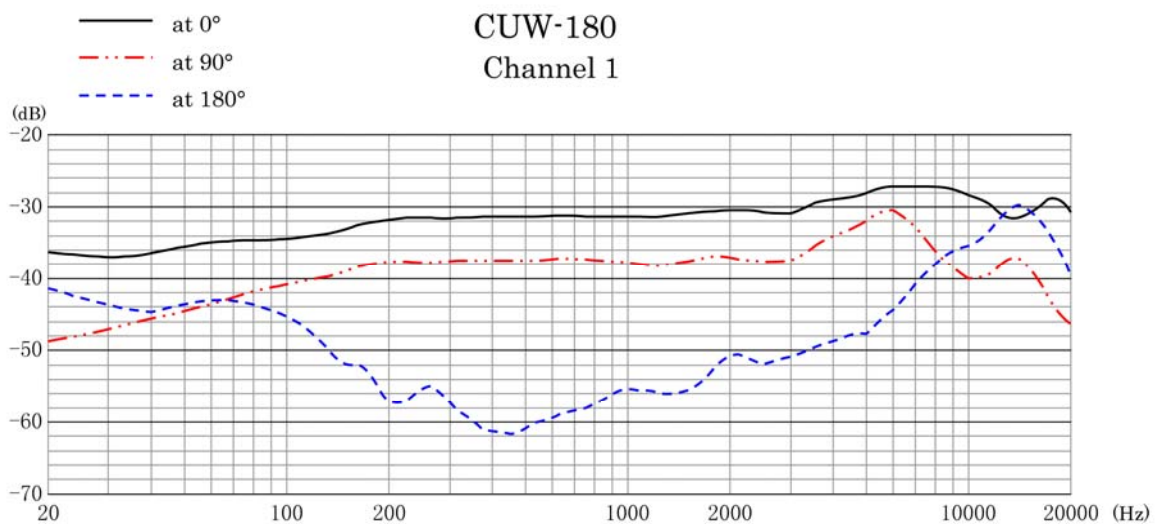
## <Specifications>

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20Hz - 20kHz
Sensitivity (nominal at 1kHz)	28.2mV/Pa ( -31dB,0dB=1V/Pa)
Equivalent noise level (A-weighted)	17dB-A
Max SPL (1% THD)	137dB SPL
Output impedance at 1kHz	180Ω
Powering	+48±4V phantom X 2ch
Current consumption	less than 1.5mA / ch
Weight	224g
Dimensions	160.6mm X 78.7mm , 20.5mm(grip diameter)
Surface finish	matte black
Connector	XLR-5M
Included Accessories	SC-532/1.8 cable, H-21F microphone holder

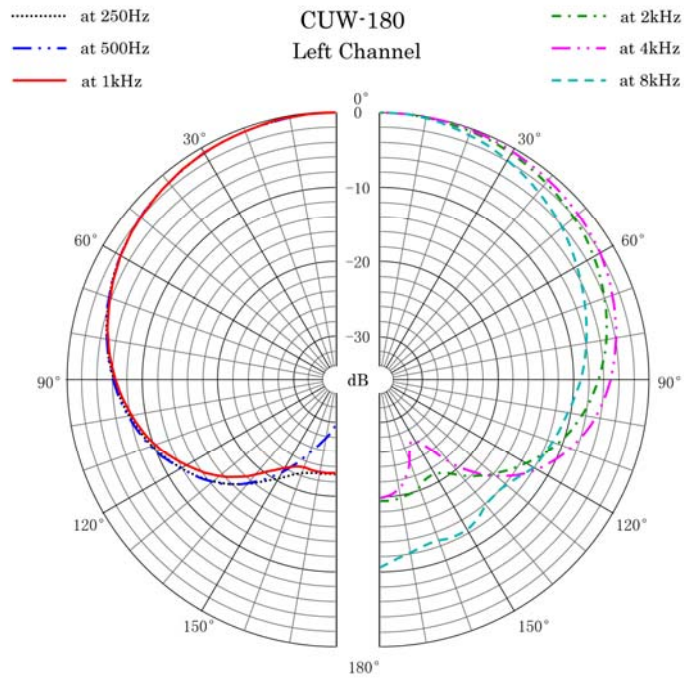
## <Dimensions>



## <Frequency Response>



<Polar Pattern>



< Optional accessories >

**GS-180XY**

One CUW-180  
Accessories set  
(GS-180 + WS-180  
+ WJ-180)



**WS-180**

Cage screen  
for one CUW-180



**GS-180**

Suspension holder  
for one CUW-180



**WJ-180**

Fur jammer  
for WS-180



< Optional accessories >

**GS-180WS**

Surround  
accessories set  
(GS-180W +  
WS-180W +  
WJ-180W +  
HCH-180)



**WS-180W**

Cage screen  
for two CUW-180



**GS-180W**

Suspension holder  
for two CUW-180



**WJ-180W**

Fur jammer  
for WS-180W



**HCH-180**

Dual holder for CS-1  
(2 in one set)



**HG-1**

Handgrip part only



**TC-180**

Flight case for  
two CUW-180  
Surround set



**CB-485II**

Phantom PSU  
one 6LR61 used  
2ch IN/OUT  
XLR5Pin M,F



**SC-532 / 0.3 , SC-532 / 1.8**

XLR-5F to two XLR-3M "Y" cable

**SC-551 / 0.3 , SC-551 / 1.5**

XLR-5F to XLR-5M cable

< CUW-180 Surround System >



●The composition of the CUW-180 Surround system

Model	Description	Quantity
CUW-180	Stereo microphone	2
GS-180WS	Surround accessories set	1
HG-1	Handgrip part only	1
TC-180	Flight case	1
CS-1	Short shotgun microphone	1
SC-331/1.5	XLR-3F to XLR-3M cable,1.5m, for CS-1	1

Specifications are subject to change without notice

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