



PRODUCT CATALOG

**UNIQUE
CONCEPT**

**NATURAL
SOUND**

**ORIGINAL
DESIGN**

MADE IN JAPAN

SINCE 1925



Sanken Microphone Co, Ltd is one of the oldest professional microphone manufacturer in Japan.

Since its founding in 1925, Sanken has been at the forefront of technology, and today continues to develop unique and innovative products.

Our philosophy is to capture sound as it is and remain as faithful to the source as possible with a range of ultra transparent microphones for professional use.

Each microphone is engineered for optimal frequency response, to accurately reproduce the expressive depth and presence of the original sound.

Sanken keeps on going to create unique and innovative microphones products for the professional audio industry in the world.

CONTENTS

LAVALIER/HEADWORN MICROPHONE 4

SHOTGUN MICROPHONE 8

STUDIO MICROPHONE 14

BOUNDARY/GOOSENECK MICROPHONE 18

MULTI-CHANNEL RECORDING MICROPHONE 22



LAVALIER / HEADWORN MICROPHONE



COS-11D

Lavalier Microphone

- Overcomes digital transmitter RFI
- Water Resistant
- Durable Design
- Great Clear and Rich Sound
- 4 Color Choices
- Improved Moisture Resistance
- Original Vertical Diaphragm Design
- Optimized for the Human Voice



■ **COS-11D-***
Lavalier Microphone with
48V I/F XLR-M
* = BE = beige
BK = black
GY = gray
WH = white



■ **COS-11D BP-***
Lavalier Microphone with
AA battery PSU XLR-M
* = BE = beige
BK = black
GY = gray
WH = white



■ **COS-11D PT-*/1.8**
■ **COS-11D PT-*/3.0**
■ **COS-11D PT-RM-*/1.8**
■ **COS-11D PT-RM-*/3.0**
Lavalier Microphone with
1.8 or 3m cable stripped
end, no connector.
* = BE = beige
BK = black
GY = gray
WH = white
RM=9dB attenuated sensitivity.



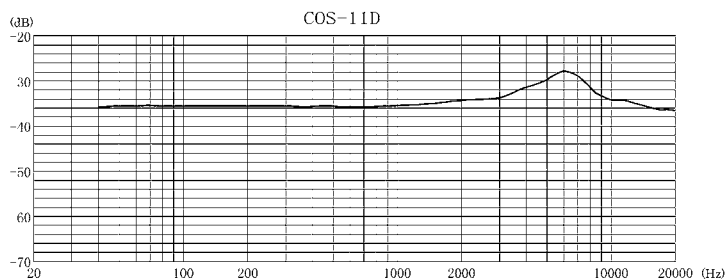
■ **COS-11D R-*1-*2**
■ **COS-11D R-RM-*1-*2**
Lavalier Microphone with
Lemo 3pin, TA5F or Hirose
4pin connector for wireless
transmitter.
*1 : BE = beige, BK = black
GY = gray, WH = white
*2 : Lemo3pin = Lemo3p for
[TRANTEC, ZAXCOM,
SENNHEISER], TA5FX =
TA5F for [Lectrosonics]
, RAMSA = Hirose4p for
[RAMSA], SONY = Hirose4p
for [SONY]
RM=9dB attenuated sensitivity.

SPECIFICATIONS

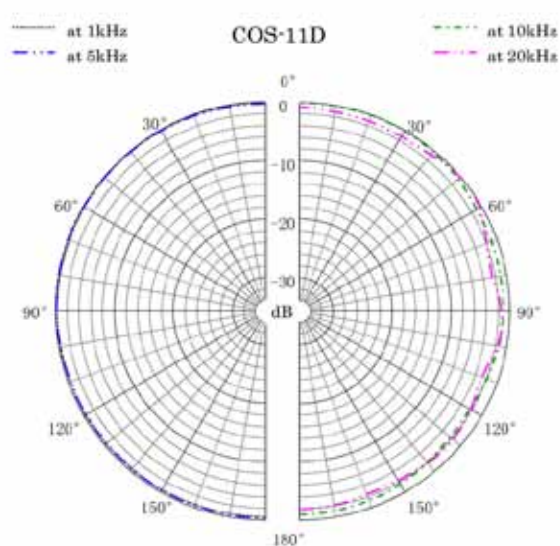
	COS-11D -**	COS-11D BP-**	COS-11D PT-**/1.8	COS-11D PT-**/3.0	COS-11D PT-RM-**/1.8	COS-11D PT-RM-**/3.0	COS-11D R-**	COS-11D R-RM-**
Directivity	Omni directional							
Transducer	Self-polarized condenser							
Frequency range	50 Hz - 20 kHz							
Sensitivity (nominal at 1 kHz)	17.8mV/Pa (-35 dB, 0 dB=1V/Pa)	6mV/Pa (-44.5 dB, 0 dB=1V/Pa)	8.9mV/Pa (-41 dB, 0 dB=1V/Pa)		3.2mV/Pa (-50 dB, 0 dB=1V/Pa)		8.9mV/Pa (-41 dB, 0 dB=1V/Pa)	3.2mV/Pa (-50 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	28 dB-A							
Max SPL (1% THD)	127 dB SPL	120 dB SPL	123 dB SPL		132 dB SPL		123 dB SPL	132 dB SPL
Output impedance at 1 kHz	180 Ω	200 Ω	700 Ω					
Powering	+48±4V phantom	AA battery , +12V to +52V	+3V to +10V					
Current consumption	less than 2.2mA	less than 1.0mA (AA battery)	less than 0.5mA					
Weight	82g	122g , 139g (with AA battery)	10g	19g	10g	19g	24g	
Dimensions	16.1mm X 4.0mm (diameter)							
Surface finish	baked painting/**=BE=beige, **=BK=black, **=GY=gray, **=WH=white							
Connector	XLR-3M		No Connector				Lemo 3pin/Hirose 4Pin/TA5 F (RM only)	
Included Accessories	HC-11 holder clip, WS-11 metal windscreen, RM-11 rubber mount							

NOTE : In COS-11D PT and COS-11D PT-RM, there are "Accessory-less = AL "types that don't include accessories" HC-11, WS-11, RM-11".

FREQUENCY RESPONSE



POLAR PATTERN



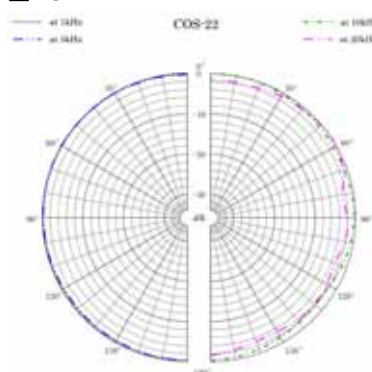
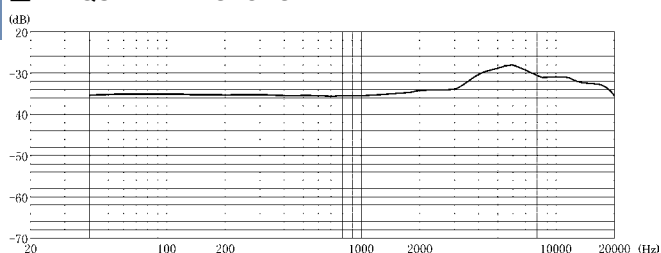
COS-22

Two-Channel Lavalier Microphone

- 2ch lavalier microphone
- Second ch can be a back up mic
- For ambient stereo recording
- Background noise cancel microphone with 1ch phase reverse

SPECIFICATIONS

Directivity	Omni directional
Transducer	Self-polarized condenser
Frequency range	50 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	17.8mV/Pa (-35 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	28 dB-A
Max SPL (1% THD)	137 dB SPL
Output impedance at 1 kHz	180 Ω
Powering	+48 \pm 4V phantom X 2ch
Current consumption	less than 2mA/ch
Weight	20g (including cable) 70g (48V I/F)
Dimensions	31.6mm X 4.0mm (diameter)
Surface finish	baked painting/gray
Connector	XLR-5M
Included Accessories	HC-22 holder clip

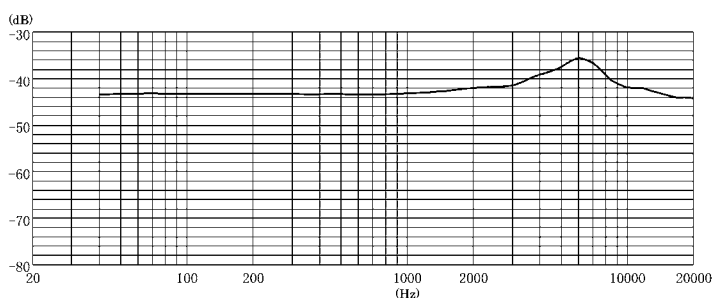
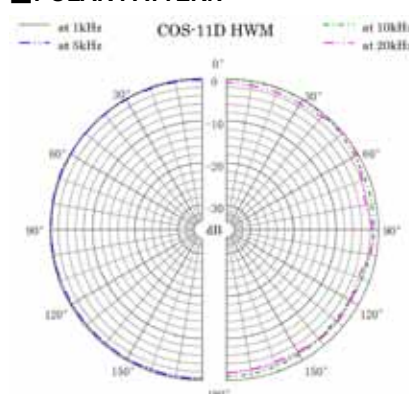
POLAR PATTERN**FREQUENCY RESPONSE****COS-11D HWM**

Headworn Microphone

- Same high-quality capsule as COS-11D is utilized
- Durable and stable fit frame to ears, suitable for hands-free talk
- Anti-corrosion Stainless Frame and microphones color selection from beige or cocoa
- Changeable microphone position for Left or right
- Available at PT(Pigtail) or R(with connector) version

SPECIFICATIONS

	COS-11DHWM-PT-**		COS-11DHWMR-**	
	** = BE	** = CC	** = BE	** = CC
Directivity	OMNI			
Transducer	Self-polarized Condenser			
Frequency range	50Hz to 20kHz			
Sensitivity (nominal at 1kHz)	7.1mV/Pa (-43dB=1V/Pa) Vcc=3.3V load resistor=8.2k Ω			
Equivalent noise level (A-weighted)	28dB-A			
Max SPL (1% THD)	136dB SPL			
Power	+2.5V to +12V			
Current consumption	0.3mA			
weight	8g (without cable) / 13g (with cable)			
Dimensions	cable length 1.8			
Surface finish				
Output connector	Pig tail		TA5F or Lemo3p or SONY-Hirose4p to be specified	
Accessories	Urethane Windscreen BE:Beige	Urethane Windscreen CC:Cocoa	Urethane Windscreen BE:Beige	Urethane Windscreen CC:Cocoa

**FREQUENCY RESPONSE****POLAR PATTERN**

OPTIONAL ACCESSORIES

HC-11-**
Holder Clip
for COS-11D series



HC-11V-**
Holder Clip / Vertical
for COS-11D series



HC-11W-**
Holder Clip Double
for 2 COS-11



WSL-11
Large Metal Windscreen
for COS-11D series (Black only)



WS-11-**
Metal Windscreen
for COS-11D series



FW-11
Foam Windscreen (11 colors in 1 pack)
for COS-11D series



RM-11
Rubber Mount beige



RM-11-BK
Rubber Mount black



RM-11C-BK
Rubber Mount with holder clip
black only



BELT CLIP for COS-11
Belt clip parts for COS-11D



BELT CLIP for COS-11BP
Belt clip parts for COS-11BP



PIN-11
Safety Pin
for COS-11D series



HC-22
Holder Clip
for COS-22



FW-11-BK: only black color, 11 pieces in 1 pack
FW-11-DGY: only dark-gray color, 11 pieces in 1 pack

FW-11 HWM-BE
Foam Windscreen for COS-11D HWM
beige color, 5 pieces in 1 pack



FW-11 HWM-CC
Foam Windscreen for COS-11D HWM
cocoa color, 5 pieces in 1 pack



MODEL ACCESSORY	COS-11D	COS-11DBP	COS-11DPT	COS-11DPT-RM	COS-11DR	COS-11D-RM	COS-22	COS-11DHWM
BELT CLIP FOR COS-11	●							
BELT CLIP FOR COS-11BP		●						
FW-11	●	●	●	●	●	●		
FW-11-BK	●	●	●	●	●	●		
FW-11-DGY	●	●	●	●	●	●		
FW-11HWM-BE								●
FW-11HWM-CC								●
HC-11	●	●	●	●	●	●		
HC-11V	●	●	●	●	●	●		
HC-11W	●	●	●	●	●	●		
HC-22							●	
P-11PT			●	●				
P-11BP-PT			●	●				
PIN-11	●	●	●	●	●	●		
RM-11	●	●	●	●	●	●		
RM-11-BK	●	●	●	●	●	●		
RM-11C-BK	●	●	●	●	●	●		
WS-11	●	●	●	●	●	●		
WSL-11	●	●	●	●	●	●		

SHOTGUN MICROPHONE



CS-1e

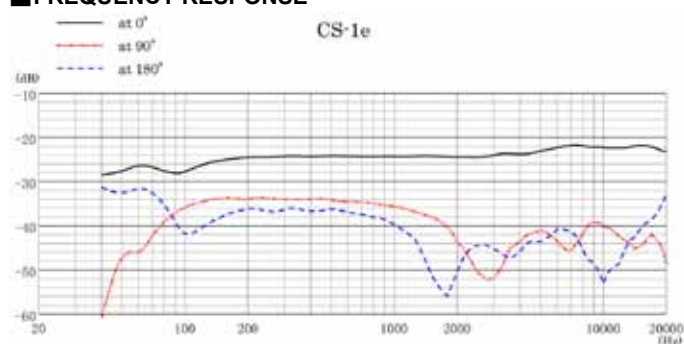
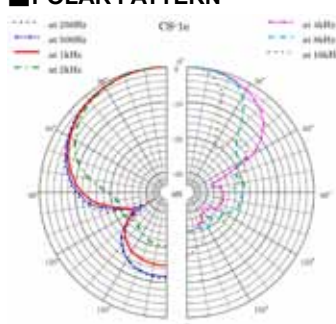
Short Shotgun Microphone



- Very sharp directivity in a 181.5mm length body
- Flat frequency response beyond 20kHz (on axis)
- High sensitivity -24 dB/Pa
- Accepts high SPLs, more than 130 dB SPL(1% THD), with no distortion in close miking
- Narrow angle directivity over the entire frequency range
- Light weight, only 80g, easy to operate on a boom pole
- Sanken original square-type DC-biased condenser capsule

SPECIFICATIONS

Directivity	Cardioid / lobar
Transducer	DC biased condenser
Frequency range	50 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	63.1mV/Pa (-24 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	15 dB-A
Max SPL (1% THD)	130 dB SPL
Output impedance at 1 kHz	120 Ω
Powering	+48 \pm 4V phantom
Current consumption	less than 3.5mA
Weight	80g
Dimensions	181.5mm x 19mm (diameter)
Surface finish	matte black
Connector	XLR-3M
Included Accessories	WM-1e urethane wind screen

FREQUENCY RESPONSE**POLAR PATTERN****CS-2**

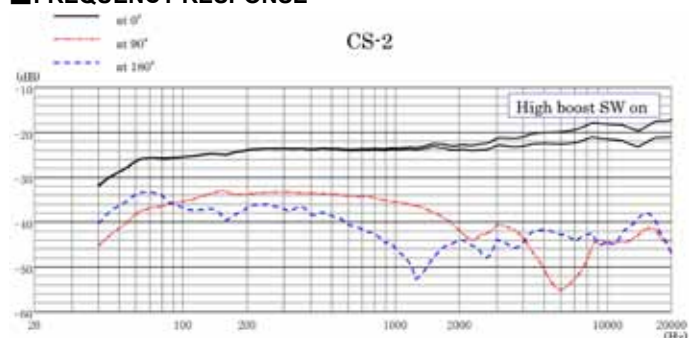
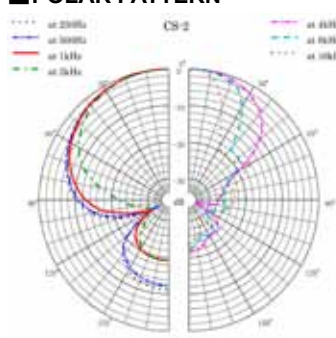
Mono Shotgun Microphone



- 120mm long acoustic tube in a standard 250 mm length / 19mm diameter body, with the proprietary Sanken rectangular capsule for supersharp directivity.
- Greater directivity and extended reach over greater distances. A rich, natural sound makes the CS-2 ideal for a wide range of uses, such as for outdoor location sound, interviews, sports, drama, variety shows, and many more.
- The "high boost switch automatically compensates for the attenuation of high frequencies when the mic is used with a windscreen/windjammer for outdoor use. As a result, the full, natural sound is maintained.

SPECIFICATIONS

Directivity	Super Cardioid / lobar
Transducer	DC biased condenser
Frequency range	50Hz - 20kHz
High boost switch	+3dB / 8kHz
Sensitivity (nominal at 1kHz)	63mV/Pa (-24dB, 0dB=1V/Pa)
Equivalent noise level (A-weighted)	15dB-A
Max SPL (1% THD)	130dB SPL
Output impedance (at 1kHz)	120 Ω
Powering	+48 \pm 4V phantom
Current consumption	less than 3.5mA
Weight	110g
Dimensions	250mm X 19mm (diameter)
Surface finish	matte black
Connector	XLR-3M
Included Accessory	WM-23 Urethane windscreen

FREQUENCY RESPONSE**POLAR PATTERN**

CS-3e

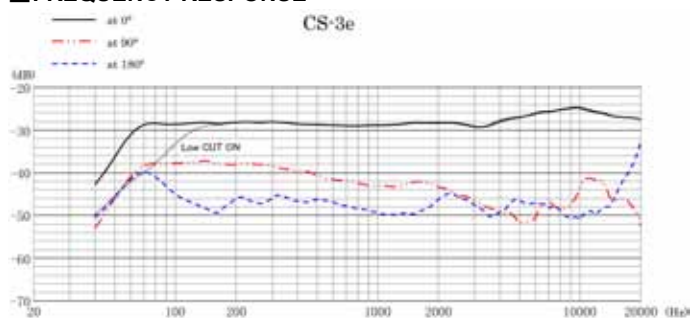
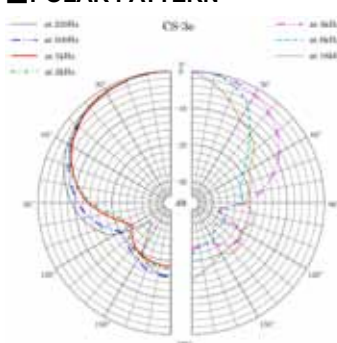
Mono Shotgun Microphone



- Unique design combination of line mic array and second pressure gradient method
- Very sharp pinpoint directivity
- Provides rich human voice characteristics

SPECIFICATIONS

Directivity	Super Cardioid / lobar
Transducer	DC biased condenser
Frequency range	50 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	40mV/Pa (-28 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	15 dB-A
Max SPL (1% THD)	120 dB SPL
Output impedance at 1 kHz	120 Ω
Powering	+48 \pm 4V phantom
Current consumption	less than 2.5mA
Weight	120g
Dimensions	270mm X 19mm (diameter)
Surface finish	matte black
Connector	XLR-3M

FREQUENCY RESPONSE**POLAR PATTERN****CSR-2**

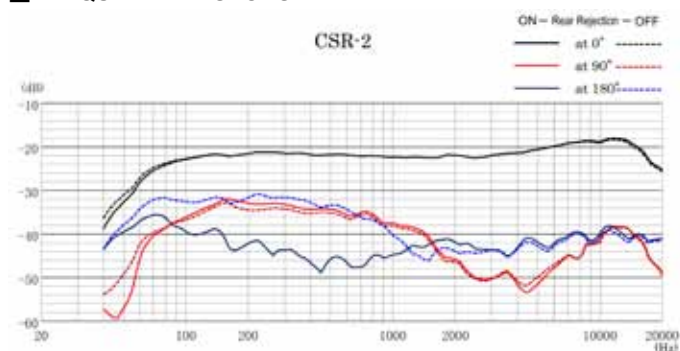
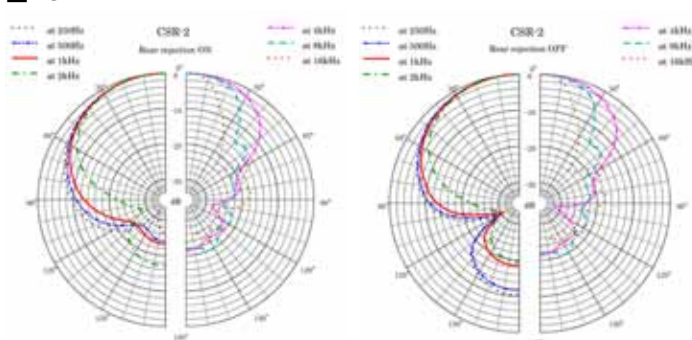
Rear Rejection Shotgun Microphone



- Suppressing back ground sensitivity at wide frequency range by narrow-angle directivity with line microphone method at mid-high frequency range and by cancelling back ground sensitivity with two capsules at low-mid frequency range.
- Easy to handle and operate by using general purpose 48V Phantom powering.
- Sharper narrow-angle directivity can be gained because of long acoustic tube with square capsule being superior in space efficiency.

SPECIFICATIONS

Directivity	Mid-High: lobar Mid-Low: Rear rejection by second gradient two Capsules
Transducer	Back electret condenser \times 3
Frequency range	70Hz - 18kHz
Sensitivity (1kHz)	71mV/Pa (-23dB, 0dB=1V/Pa)
Equivalent noise level (A-weighted)	Rear rejection ON: 16dB SPL Rear rejection OFF: 15dB SPL
Max SPL (1% THD)	123dB SPL
Output impedance (1kHz)	150 Ω
Powering	+48 \pm 4V phantom
Current consumption	4.5mA
Weight	170g
Dimensions	250mm X 22mm (diameter)
Surface finish	matte black
Connector	XLR-3M
Included Accessories	WM-R2 Urethane windscreen

FREQUENCY RESPONSE**POLAR PATTERN**

CSS-5

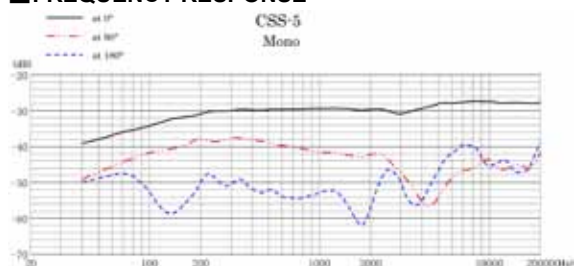
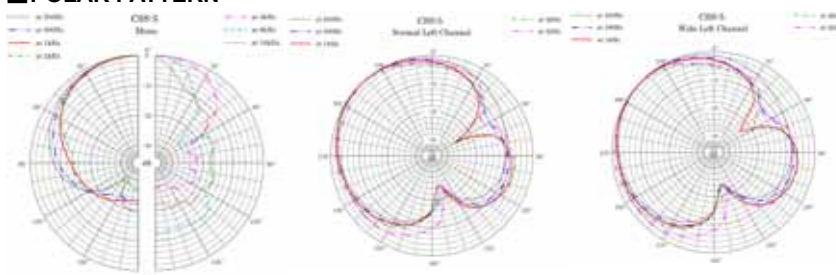
Stereo Mono Switchable Shotgun Microphone



- MONO, Normal STEREO and Wide STEREO 3 MODE switchable
- Superb rear rejection at 180 degrees even in low frequencies
- MONO-STEREO compatibility. Mono and phantom center have the same sound characteristics

SPECIFICATIONS

Directivity	Super Cardioid / lobar, 2ch stereo
Transducer	DC biased condenser
Frequency range	100 Hz - 15 kHz
Sensitivity (nominal at 1 kHz)	MONO 32mV/Pa (-30 dB, 0 dB=1V/Pa) NOR 40mV/Pa (-28 dB, 0 dB=1V/Pa) WIDE 70mV/Pa (-23 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	18 dB-A
Max SPL (1% THD)	120 dB SPL
Output impedance at 1 kHz	240 Ω
Powering	+48±4V phantom X 2ch
Stereo angle	NOR 120°, WIDE 140°
Current consumption	less than 2.5mA (Lch), less than 1.6mA (Rch)
Weight	250g
Dimensions	300mm X 45mm , 22.5mm (slit part diameter) 19mm (grip diameter)
Surface finish	matte black
Connector	XLR-5M

FREQUENCY RESPONSE**POLAR PATTERN****CSS-50**

Stereo Mono Switchable Shotgun Microphone



- Thanks to original thin square capsule design, capsules can be installed in a short acoustic tube, maintaining basic shotgun performance equivalent to the CSS-5 in 215mm length compact body.
- Newly designed high-performance electret condenser capsules is adopted, providing equivalent frequency response, sensitivity and noise level to DC-biased capsules.
- Adopting X-Y stereo method, featuring precise localization effect and less wind/vibration noises.
- Selectable three distinct operation modes:

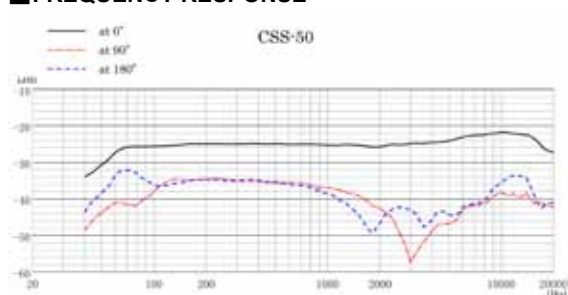
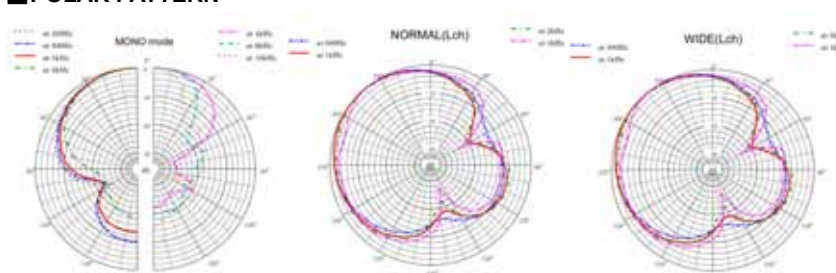
MONO : Offers sharp shotgun directivity.

NORMAL : Provides precise stereo localization.

WIDE : Allows for expanded wide stereo effect.

SPECIFICATIONS

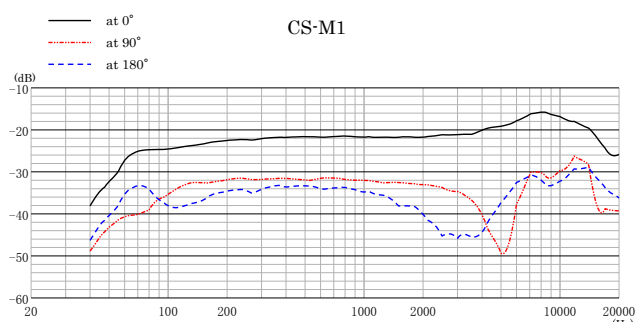
Directivity	Super Cardioid/lobar and 2ch STEREO
Transducer	Back electret condenser x 3
Frequency range	70Hz - 18kHz
Sensitivity (1kHz)	MONO: 56mV/Pa (-25dB) [0dB=1V/Pa] NORMAL: 100mV/Pa (-20dB) WIDE: 141mV/Pa (-17dB)
Equivalent noise level (A-weighted)	MONO: 16dB SPL NORMAL, WIDE: 17dB SPL
Max SPL (1% THD)	120dB SPL
Switch	MONO, NORMAL, WIDE
Output impedance (1kHz)	140 Ω
Powering	+48±4V phantom
Current consumption	4mA
Weight	160g
Dimensions	215mm x 22mm (diameter)
Surface finish	matte black
Connector	XLR-5M
Included Accessories	1: GND, 2: Lch Hot, 3: Lch Cold, 4: Rch Hot, 5: Rch Cold WM-50 Urethane windscreen

FREQUENCY RESPONSE**POLAR PATTERN**

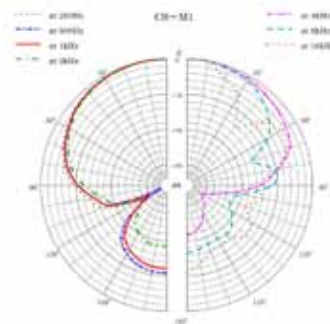
CS-M1

Ultra Short Shotgun Microphone

- Short body length (103 mm) and light weight (55g).
- Sharp directivity and clear sound.
- Perfect solution for the camera mount, boompole operation and recording in drama studio.

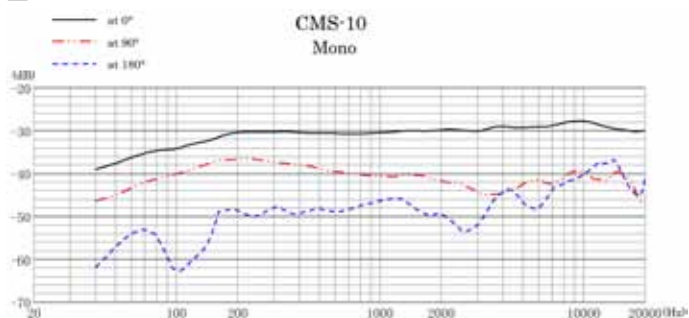
**FREQUENCY RESPONSE****SPECIFICATIONS**

Directivity	Super Cardioid / lobar
Transducer	Back electret condenser
Frequency range	70Hz - 20kHz
Sensitivity (nominal at 1kHz)	79mV/Pa (-22dB, 0dB=1V/Pa)
Equivalent noise level (A-weighted)	16dB SPL
Max SPL (1% THD)	137dB SPL
Output impedance (1kHz)	140Ω
Powering	+48V±4V phantom
Current consumption	4mA
Weight	55g
Dimensions	103mm x 19mm (diameter)
Surface finish	matte black
Connector	XLR-3-12C(M) equivalent (1:GND, 2:Hot, 3:Cold)
Included Accessories	WM-M1 Urethane windscreen

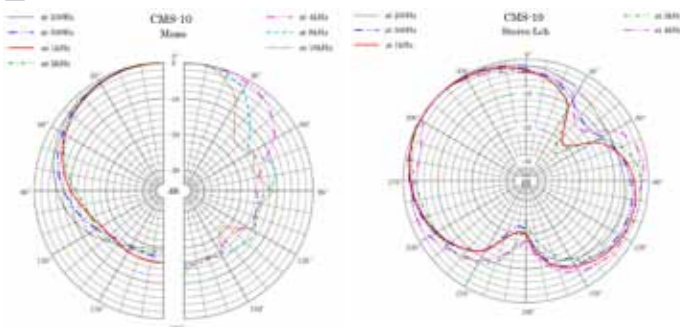
POLAR PATTERN**CMS-10**

M•S Stereo Shotgun Microphone

- Switchable very sharp mono-shotgun and stereo mic
- Very short length (210.5mm) and light weight (170g)
- Using PPS diaphragm, it maintains high durability and quality even in high humidity environments.
- By use of a specially designed suspension holder, it can isolate camera motor noise in camera mount use.
- Basic design is M-S, but it includes M-S to L-R circuitry, and allows a direct L-R signal.

**FREQUENCY RESPONSE****SPECIFICATIONS**

Directivity	Mono=Super Cardioid / lobar Stereo=Hyper Cardioid (L-R Outputs)
Transducer	DC biased condenser
Frequency range	150 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	STEREO 50mV/Pa (-26 dB, 0 dB=1V/Pa) MONO 32mV/Pa (-30 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	STEREO 20 dB-A , MONO 22 dB-A
Max SPL (1% THD)	120 dB SPL
Output impedance at 1 kHz	240 Ω
Powering	+48±4V phantom X 2ch
Stereo angle	127°
Current consumption	less than 2.5mA/ch
Weight	170g
Dimensions	211mm X 27.8mm (metal mesh part diameter) 26.5mm (Suspension cylinder diameter) 19mm (grip diameter)
Surface finish	matte black
Connector	Cable direct out from the microphone, 30cm XLR-5M
Included Accessories	WSJ-10 Short fur Softie windjammer Suspension cylinder set

POLAR PATTERN

OPTIONAL ACCESSORIES

GS-1
Suspension Hand grip



GS-23
Suspension Hand grip



GS-5E
Suspension Hand grip



GS-M1
Suspension Hand Grip



SH-1
Suspension holder



RB-1
Spare rubber parts for SH-1



HG-1
Handgrip part only



WSJ-1e
Softie type cage + windjammer



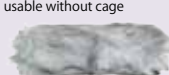
WSJ-10
Softie windjammer



WSJ-23
Softie windjammer



WSJ-5
Softie Windjammer
usable without cage



WSJ-M1
Softie windjammer



Doughnut rubber ring set



WJ-295
Softie windjammer



WJ-4
Windjammer



WJ-5E
Windjammer



WJ-M1
Windjammer



Suspension cylinder set



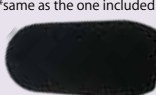
WM-1e
Urethane windscreen



WM-23
Softie windjammer



WM-M1
Urethane Windscreen (option)
*same as the one included in CS-M1



TC-3E
Flight case



TC-5E
Flight case



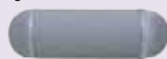
WS-295
Cage windshield



WS-4
Cage windshield



WS-5E
Cage windshield



WS-M1
Cage Windshield



ACCESSORY \ MODEL	CS-1e	CS-M1	CS-2	CS-3e	CSR-2	CSS-5	CSS-50	CMS-10
GS-1	●							
GS-23			●	●	●		●	
GS-5E						●		
GS-M1		●						
HG-1	●							
K-BWC	●							
K-BWJ	●							
K-BWS	●							
RB-1	●							
SH-1	●							
TC-2E			●					
TC-2R					●			
TC-3E				●				
TC-5E						●		
WJ-295							●	
WJ-4			●	●	●			
WJ-5E						●		
WJ-M1		●						
WM-1e	●							
WM-1eSET	●							
WM-23			●	●				
WM-M1		●						
WM-R2					●			
WS-295							●	
WS-4			●	●	●			
WS-5E						●		
WSJ-1	●						●	
WSJ-10								●
WSJ-1e	●							
WSJ-23			●	●	●			
WSJ-5						●		
WSJ-M1		●						
WS-M1		●						
DOUGHNUT RUBBER RING SET								●
SUSPENSION CYLINDER SET								●

STUDIO MICROPHONE



CU-41

Dual Capsule Microphone



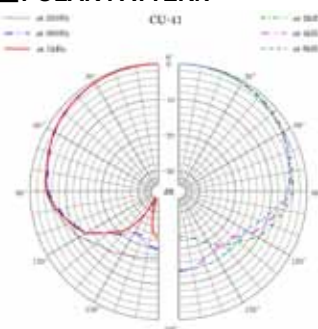
Not available in EU area and China.

- *Transparent Sound, Ideal Cardioid Microphone*
- *2 way capsule design*
- *Totally flat frequency response in 0°, 60°, 90° and 135°*

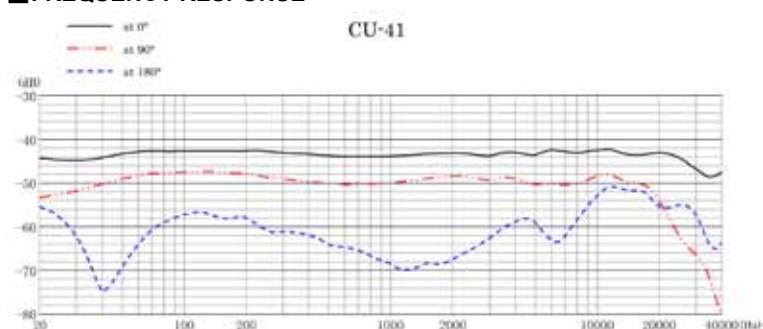
SPECIFICATIONS

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20 Hz - 30 kHz
Sensitivity (nominal at 1 kHz)	7mV/Pa (-43 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	15 dB-A
Max SPL (1% THD)	140 dB SPL
Output impedance at 1 kHz	150 Ω
Powering	+48±4V phantom
Current consumption	less than 4.2mA
Weight	600g
Dimensions	180mm x 50mm (diameter)
Surface finish	satín nickel
Connector	XLR-3M
Included Accessories	S-41 elastic suspension

POLAR PATTERN



FREQUENCY RESPONSE



CU-44X MkII

Transformerless Dual Capsule Microphone

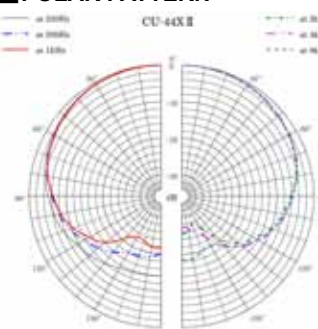


- *High Transient Response, Transformerless Microphone*
- *2 way capsule design*
- *Output transformerless version of CU-41*

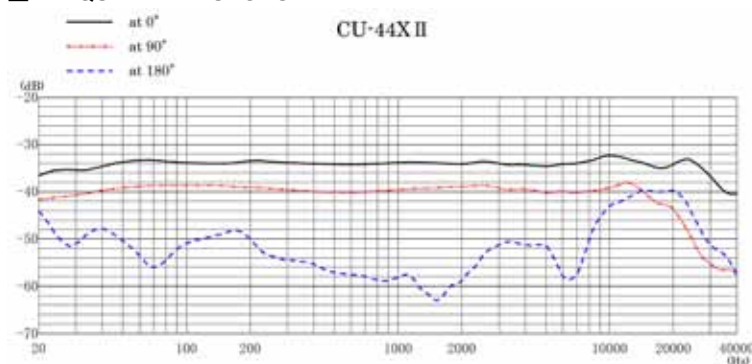
SPECIFICATIONS

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20 Hz - 30 kHz
Sensitivity (nominal at 1 kHz)	22.0mV/Pa (-34 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	15 dB-A
Max SPL (1% THD)	140 dB SPL
Output impedance at 1 kHz	150 Ω
Powering	+48±4V phantom
Current consumption	less than 4mA
Weight	430g
Dimensions	156mm x 45.5mm (diameter)
Surface finish	matte black
Connector	XLR-3M
Included Accessories	S-44XII elastic suspension

POLAR PATTERN



FREQUENCY RESPONSE



CU-55

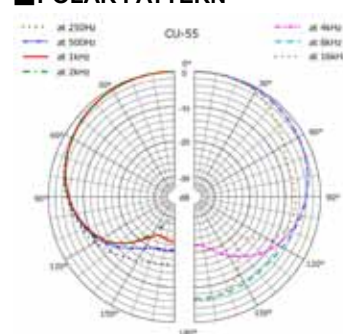
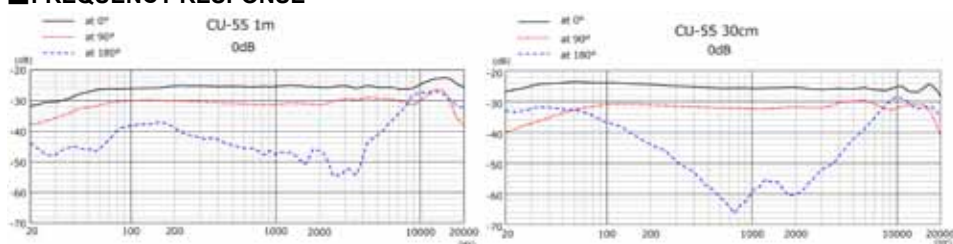
Cardiod Microphone



- Small, lightweight microphone with high sensitivity; easy to set up for the studio recording
- Captures natural, uncolored sound in versatile applications, especially in acoustic instruments performances
- Beautiful cardioid pattern and frequency response not only on-axis but at other angles

SPECIFICATIONS

Transducer	DC biased condenser type
Directivity	Cardioid
Frequency Range	40Hz ~ 20kHz
Sensitivity	SW : 0dB -26dB (50.1mV, 0dB=1V/Pa) SW : -10dB -36dB (15.8mV, 0dB=1V/Pa)
Equivalent Noise Level (JIS A)	15 dB-A
Max. SPL (THD=1%)	137dB SPL at 0dB position
Output Impedance (1kHz)	180 Ω
Loudness Switch	-10dB at -10dB position
Powering	+48V±4V U.P.F
Current Consumption	3.5mA
Dimensions	113mm X 30mm (diameter)
Weight	180g
Surface Finish	matte brown
Output Connector	XLR-3-12C(M) (1:GND, 2:Hot, 3:Cold)
Optional accessory	Suspension S-55

POLAR PATTERN**FREQUENCY RESPONSE****CU-51**

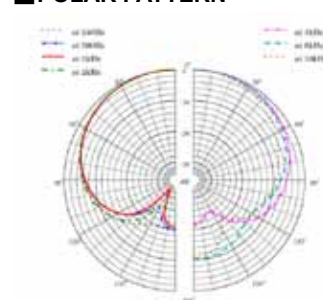
Transformerless Dual Capsule Microphone



- Perfect for vocals and acoustic instruments
- Dual phase coherent capsules - low and high
- Uniform response in both on-axis and off-axis positions
- Truly flat frequency response even at 90 degrees
- Low proximity effect

SPECIFICATIONS

Transducer	2 way capsule DC biased condenser
Directivity	Cardioid
Frequency Range	20Hz - 20kHz
Sensitivity	-30dB (31.6mV , 0dB=1V/Pa)
Equivalent Noise Level (JIS A)	14dB-A
Max. SPL (THD=1%)	138dB SPL
Output Impedance (1kHz)	150 Ω
Powering	+48±4V phantom
Current Consumption	4mA
Dimensions	157mm X 41.5mm (diameter)
Weight	430g
Surface Finish	matte brown
Output Connector	XLR-3-12C(M)

POLAR PATTERN**FREQUENCY RESPONSE**

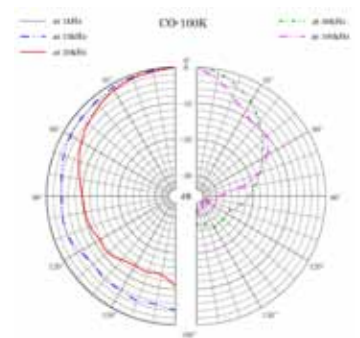
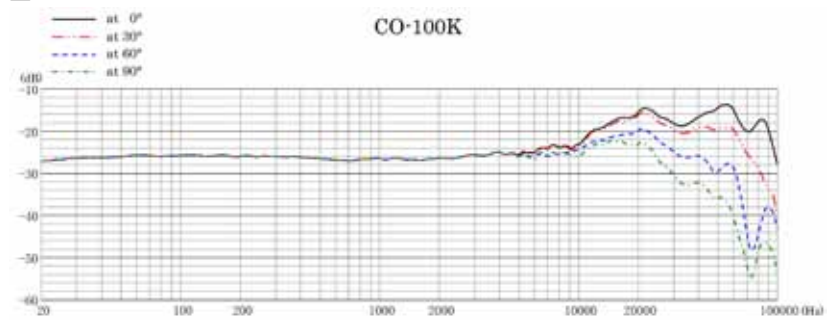
CO-100K

100kHz Super Wide Range Microphone

- Omnidirectional Super Wide Range
- Unprecedented 20Hz to 100kHz Frequency Response
- Unique Diaphragm Design
- Ideal for Professional Recording

**SPECIFICATIONS**

Directivity	Omni directional
Transducer	DC biased condenser
Frequency range	20 Hz - 100 kHz
Sensitivity (nominal at 1 kHz)	39.8mV/Pa (-28 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	22 dB-A
Max SPL (1% THD)	125 dB SPL
Output impedance at 1 kHz	150 Ω
Powering	+48 \pm 4V phantom
Current consumption	Less than 6mA
Weight	150g
Dimensions	191.5mm X 20.5mm (diameter)
Surface finish	matte black
Connector	XLR-3M

POLAR PATTERN**FREQUENCY RESPONSE****OPTIONAL ACCESSORIES**

S-41
Elastic suspension



S-44XII
Elastic suspension



GS-100
Suspension holder



RB-100
Spare rubber parts
(2 in one set)



Rubber String set
Spare rubber string for S-41 (2 in one set)



S-55
Elastic suspension



MODEL	CU-41	CU-44XMKII	CU-51	CU-55	CO-100K
ACCESSORY					
GS-100					●
S-41	●				
S-44XII		●	●		
S-55				●	
RB-100					●
Rubber String Set for S-41	●				

BOUNDARY / GOOSENECK MICROPHONE



CUB-01

Miniature Boundary Microphone

- Clear and rich sound
- Small size, easy to set up
- Front side of hemisphere cardioid directivity
- Two color choices (Beige / Gray)

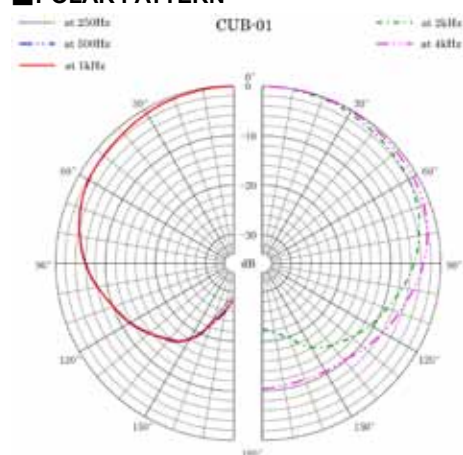


The SANKEN CUB-01 offers an exclusive design which overcomes the limitations of previous boundary microphones, producing an extremely rich and full-bodied sound. Although small (32.5mm diameter, 14mm height, 45g weight) the sound is comparable with much larger microphones. The CUB-01 is designed for use in many situations, from TV and film field shooting to broadcast studio production and conference table recording. Because of its small size it is easy to conceal from the camera, and can be positioned in a variety of environments, for example, attached to the ceiling of a car with two-sided sticky tape.

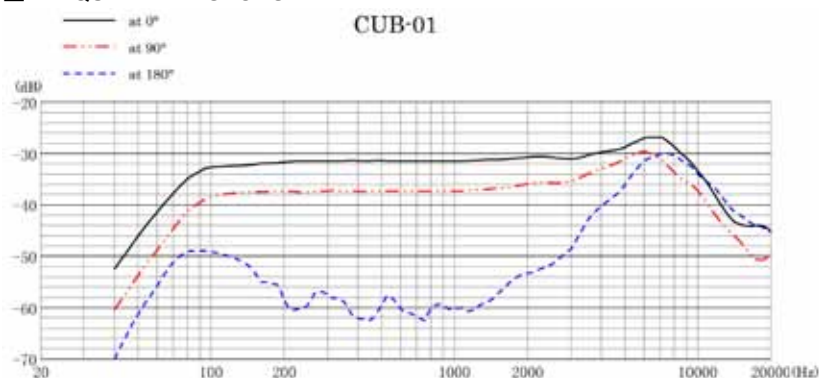
SPECIFICATIONS

Directivity	Cardioid/front side of hemisphere
Transducer	Self-polarised condenser
Frequency range	60 Hz - 15 kHz
Sensitivity (nominal at 1 kHz)	40mV/Pa (-28 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	16 dB-A
Max SPL (1% THD)	120 dB SPL
Output impedance at 1 kHz	180 Ω
Powering	+48 \pm 4V phantom
Current consumption	less than 1.8mA
Weight	45g (including cable) , 55g (48V I/F)
Dimensions	32.5mm (diameter) X 14.0mm
Surface finish	CUB-01-BE=baked painting/beige, CUB-01-GY=baked painting/gray
Connector	XLR-3M
Included Accessories	rubber base X 2 , urethane wind screen

POLAR PATTERN



FREQUENCY RESPONSE



CUS-101B

Gooseneck Microphone

- Clear and natural human voice because of exclusively designed frequency response
- Superb isolation from table vibration using a unique absorbing system
- Available in 130mm, 240mm and 300mm goose-neck lengths
- Titanium diaphragm is durable and immune to humidity
- Available in 7 colors set WM-101



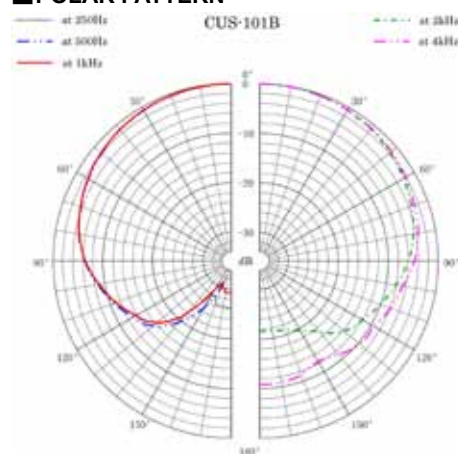
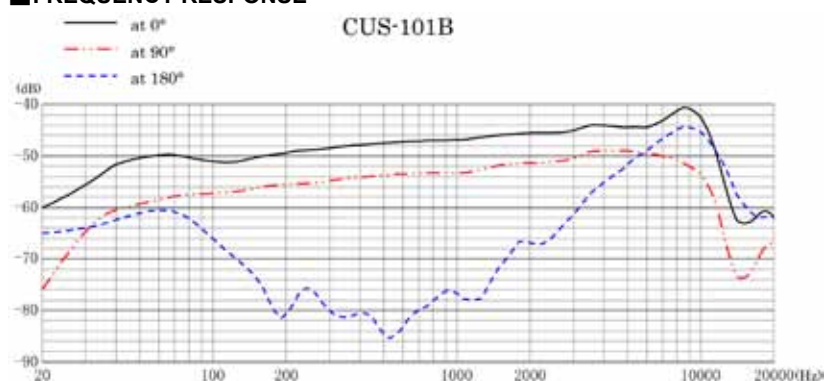
Not available in EU area and China.

The SANKEN CUS-101B is specially designed for the announcer's voice in TV and radio broadcasting. Using a DC-biased condenser capsule and a carefully designed transducer, this microphone provides a perfect sound for the human voice. The frequency response is specifically focused for "speech" and picks up the human voice very clearly and naturally. Also, the CUS-101B features cardioid directivity with approximately 20dB rejection on axis vs. 180 degrees.

The system is very effective for isolation from vibration noise because the resonance of the shock absorber is set to lower than 20Hz. The microphone is available in three lengths: 130mm, 240mm and 300mm, depending on the application.

SPECIFICATIONS

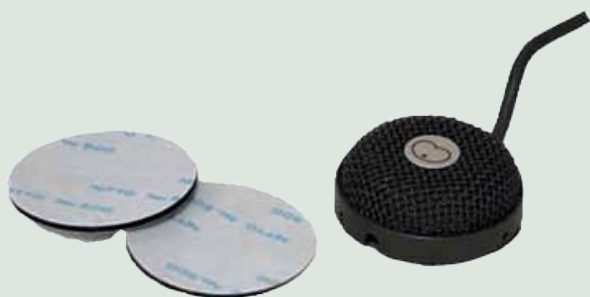
Directivity	Cardioid	
Transducer	DC biased condenser	
Frequency range	50 Hz - 10 kHz	
Sensitivity (nominal at 1 kHz)	5.6mV/Pa (-45 dB, 0 dB=1V/Pa)	
Equivalent noise level (A-weighted)	22 dB-A	
Max SPL (1% THD)	125 dB SPL	
Output impedance at 1 kHz	250 Ω	
Powering	+48±4V phantom	
Current consumption	less than 0.85mA	
Weight	57g (CUS-101B/130)	74g (CUS-101B/240)
	82g (CUS-101B/300)	TS-101HGN 641g
Dimensions	236mm(CUS-101B/130)	346mm(CUS-101B/240)
	402mm(CUS-101B/300)	X 24.4mm (metal mesh part diameter)
Surface finish	satin nickel	
Connector	XLR-3M	

POLAR PATTERN**FREQUENCY RESPONSE**

OPTIONAL ACCESSORIES

RB-01

Rubber base (10 pcs)



WJ-01

Windjammer for outdoor use



WM-01-BK

Urethane windscreen black(10pcs)



WM-101

Urethane windscreen (7 colors one pack)



MODEL \ ACCESSORY	CUB-01	CUS-101B/130	CUS-101B/240	CUS-101B/300
RB-01	●			
WJ-01	●			
WM-01-BK	●			
WM-101		●	●	●

MULTI-CHANNEL MICROPHONE



CMS-2

M-S Stereo Microphone



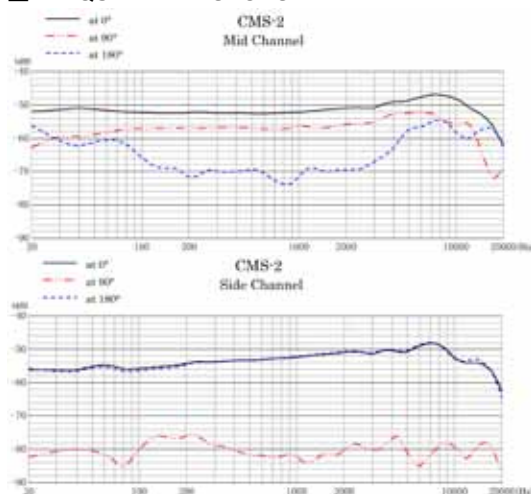
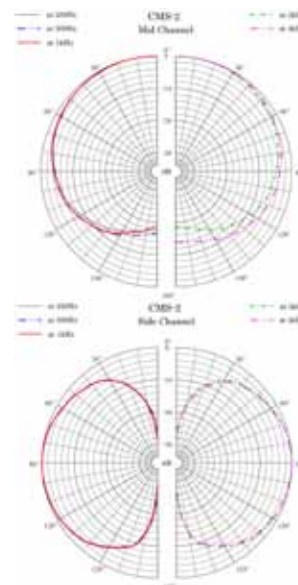
Not available in EU area and China.

- M-S microphone for music recording
- Ideal precise coherent phase M S capsule layout
- Unique push-pull transducer and audio circuitry

SPECIFICATIONS

NOTE : Not Available in EU area and China.

Directivity	Mid=Cardioid, Side=Figure of 8
Transducer	DC biased condenser
Frequency range	20 Hz - 18 kHz
Sensitivity (nominal at 1 kHz)	2.8mV/Pa (-51 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	16 dB-A
Max SPL (1% THD)	145 dB SPL
Output impedance at 1 kHz	250 Ω
Powering	+48 \pm 4V phantom
Current consumption	less than 1.4mA/ch X 2ch
Weight	180g
Dimensions	173mm X 20.5mm(grip diameter) 63mm(metal mesh part)
Surface finish	satın nickel
Connector	XLR-5M
Included Accessories	H-21D microphone holder

FREQUENCY RESPONSE**POLAR PATTERN****WMS-5**

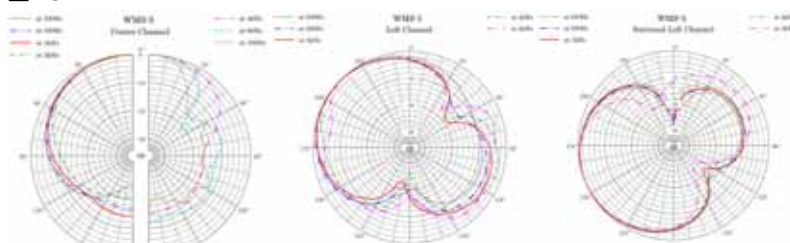
5.0 Surround Microphone



- 5 surround outputs from one microphone (L, C, R, LS, RS)
- Compact size: 235mm(length), 235g(weight)
- Precise phase coherent M, S, M capsule layout
- MS to LR Matrix circuitry in the microphone body
- Ideal 5.0 sound localization

SPECIFICATIONS

Directivity	Super Cardioid (center output) Hyper Cardioid (L, LS, R, RS outputs)
Transducer	DC biased condenser
Frequency range	50 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	44.7mV/Pa (-27 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	MONO 20 dB-A, STEREO 22 dB-A . SURROUND 22 dB-A
Max SPL (1% THD)	120 dB SPL
Output impedance at 1 kHz	120 Ω
Powering	+48 \pm 4V phantom X 5ch
Stereo angle	120° (L, R), 120° (LS, RS)
Current consumption	less than 4mA/ch
Weight	235g
Dimensions	235mm X 27.8mm (metal mesh part diameter) , 19mm (grip diameter)
Surface finish	matte black
Connector	Multi 12Pin

FREQUENCY RESPONSE**POLAR PATTERN**

CUW-180

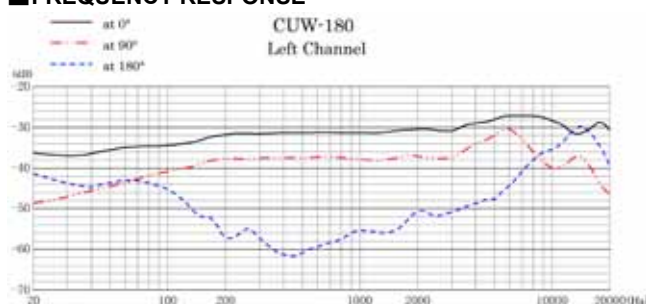
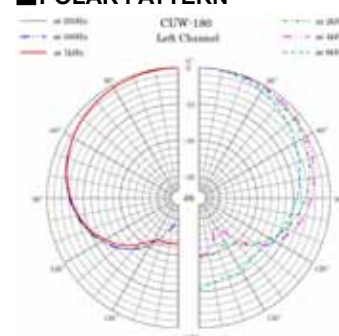
X-Y 2ch Stereo Microphone



- 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

SPECIFICATIONS

Directivity	Cardioid
Transducer	DC biased condenser
Frequency range	20 Hz - 20 kHz
Sensitivity (nominal at 1 kHz)	28.2mV/Pa (-31 dB, 0 dB=1V/Pa)
Equivalent noise level (A-weighted)	17 dB-A
Max SPL (1% THD)	137 dB SPL
Output impedance at 1 kHz	180 Ω
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

FREQUENCY RESPONSE**POLAR PATTERN****CUW-180 Surround System****SAMPLE OF SYSTEM CONFIGURATION**

Stereo Microphone	CUW-180 (2 units)	SC-532/1.8 cable included
Accessory Set (cage, suspension, jammer) for two CUW-180	GS-180WS	GS-180W, WS-180W, WJ-180W, HCH-180, OR-180
Handgrip part only	HG-1	
Flight case	TC-180	
Shotgun Microphone	CS-1e	
Cable	SC-331/1.5	For CS-1e

- 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.

OPTIONAL ACCESSORIES

WS-180W

Cage screen for 2 CUW-180



WS-180

Cage screen for 1 CUW-180



HG-1

Handgrip part only



WGS-5E

Shock mount holder (3/8)



WJ-180W

Fur jammer for WS-180W



WJ-180

Fur jammer for WS-180



WJ-5L

Softie long fur



WJ-5

Softie short fur



HCH-180

Dual Holder (2 in one set)



OR-180

GS-180W



K-BWC

Camera mount (26mm)



K-BWJ

Camera mount (21mm)



K-BWS

Camera mount (24mm)



TC-180

Flight case for 2 CUW-180 Surround Set



TCW-5E

Flight case for WMS-5 set with WS-180W



ACCESSORY \ MODEL	CMS-2	CUW-180	WMS-5
GS-180A		●	
GS-180W		●	
GS-180WS		●	
GS-180XY		●	
H-21D	●		
HCH-180		●	
HG-1		●	●
K-BWC			●
K-BWJ			●
K-BWS			●
MB-2D	●		
TC-180		●	
TCW-5E			●
WGA-5			●
WGS-5E			●
WJ-180		●	
WJ-180W		●	●
WJ-5			●
WL-5L			●
WS-180		●	
WS-180W		●	●

GS-180WS

SURROUND SET Cage, suspension, jammer for 2 CUW-180



Allows to keep natural continuousness of 5 channels without dead points, and accurate localization of sound images.

HAD-48



Not available in EU area and China.

- Provides needed gain for dynamic microphone
- Provides gain boost for long cable length
- Selectable Gain: +20dB or +40dB
- Powered by mixer phantom 48 volts
- No batteries required
- Small and portable, attractive packaging

■ SPECIFICATIONS

Gain	+20 dB or +40 dB switchable
Frequency range	30 Hz - 40 kHz(+20 dB position) 30 Hz - 20 kHz(+40 dB position)\
Max input level (THD1%)	250mVms(-12 dBV)(+20 dB position) 25mVms(-32 dBV)(+40 dB position)\
Max output level (THD1%)	2.5mVms(+8 dBV)
Input impedance at 1 kHz	10k Ω
Output impedance at 1 kHz	150 Ω
Recommended load input impedance	more than 1k Ω
Equivalent noise level (A-weighted)	Less than -120 dB
Powering	+48 \pm 4V phantom
Current consumption	3.5mA
Weight	90g
Dimensions	115.3mm X 19mm (diameter)
Surface finish	satın nickel
Input Connector	XLR-3F
Output Connector	XLR-3M

CABLES

CABLE No.	Description	COS-22	CSS-5	CSS-50	CMS-10	CMS-2	WMS-5	CUW-180
SC-532/0.3	XLR-5F to 2x XLR-3M"Y" cable, 0.3m	●	●	●	●	●		●
SC-532/1.8	XLR-5F to 2x XLR-3M"Y" cable, 1.8m	●	●	●	●	●		●
SC-532F/0.3	XLR-5F to 2x XLR-3F cable, 0.3m	●	●	●	●	●		●
SC-532F/1.8	XLR-5F to 2x XLR-3F cable, 1.8m	●	●	●	●	●		●
SC-551/0.3	XLR-5F to XLR-5m cable, 0.3m	●	●	●	●	●		●
SC-551/1.5	XLR-5F to XLR-5M cable, 1.5m	●	●	●	●	●		●
SC-551F/1.5	XLR-5F to XLR-5F cable, 1.5m	●	●	●	●	●		●
WSC-531/2.0	Mono Cable 12P multi(F) - XLR-3M X 1(2m)						●	
WSC-532/2.0	Stereo Cable 12P multi(F) - XLR-3M X 2(2m)						●	
WSC-535/2.0	5.0 cable 12P multi(F)-XLR-3M X 5(2m)						●	
WSC-551/3.0	Cable 12P multi(F)-12P multi(M) (3m)						●	
WSC-750/0.87	Cam "Y" cable 12P multi(F)-XLR-3M an XLR-5M (0.87m)						●	

MEMO



The world's most original
microphone maker.

Sanken Microphone Co., Ltd.

2-8-8 Ogikubo, Suginami-ku, Tokyo 167-0051 Japan

Phone +81 - 03 - 3392 - 6581

Fax +81 - 03 - 3393 - 2055

<http://www.sanken-mic.com/en/>

© Sanken Microphone Co.,Ltd.