



## **Multi-Channel**

## Sound/Vibration Measurement System

Flexible Multi-Channel Configuration Handles Many Measurement Scenarios

Sound Level Meter Unit

Vibration Level Meter Unit

Interface Unit

**UN-14** 

**UV-15** 

**UV-22** 

The Multi-Channel Sound/Vibration Measurement System offers unprecedented flexibility. Freely combine units for applications such as acoustic measurements, wide range vibration level measurements, or simultaneous monitoring of noise and vibration levels.



#### ■ UN-14 current consumption per unit: 140 mA ■ UV-15 current consumption per unit: 140 mA ■UV-22 current consumption per unit: 240 mA Link 1 to 16 units in any combination: Link up to 3 units for battery Link 1 to 16 units to Sensors powered operation with Vibration Level Meter Unit UV-15 Battery Pack Unit BP-17 Microphone preamplifier(excluding UC-34P) Sensitivity setting range: -10.0 to -59.9 dB (dB re 1 V/Pa) OPiezoelectric accelerometer OAccelerometer with integrated preamplifier ©TEDS compliant accelerometer with integrated preamplifier Sensitivity setting range : 0.100 to 99.9 pC/ (m/s²) : 0.100 to 99.9 mV/ (m/s²) UV-15 **UV-15** UN-14 UV-15 UN-14 **BP-17** UV-22 **UV-15** UN-14

Configure a measurement system for up to 16 channels by linking the Sound Level Meter Unit UN-14 and Vibration Level Meter Unit UV-15. Each unit has its own display showing settings, measurement values, and a bar graph indication. Adding the Interface Unit UV-22 allows connection to a computer for control of settings and operation and transfer of measurement data.

- Backlit LCD and LED warning indicators
- Rack mount capability for shop floor or laboratory installations (JIS compliant rack CF-27 available as option)
- Easy portability of sound level or vibration level units allows use in the field (with optional Battery Pack Unit BP-17)

#### UN-14 Specifications

	-14 Specifications	_				
÷	outs	L				
L L	Number of measurement channels		1			
Connectors						
	7-pin input connector					
BNC connector		Microphone bias voltage +30 V, +60 V, +200 V				
		For CCLD compliant microphone or preamplifier (24 V 4 mA)				
				t microphone (24 V 4 mA)		
	Frequency weighting		A, C, Z (JIS C 1509-1 Class 1 electrical characteristics)			
	characteristics					
Measurement		A 30 to 128 dB (using UC-59, NH-17)				
	level range		C 36 to 128 dB (us	. ,		
		-		ing UC-59, NH-17) (HPF 20 Hz, LPF		
	equency range	L	1 Hz to 80 kHz (20	Hz to 40 kHz ±0.5 dB) (1 Hz to 80 kHz	Hz ±3 dB)	
	nsitivity setting	L				
Setting range		-10.0 to 59.9 dB/Pa in 0.1 dB/Pa steps				
Le	Level range settings		6 settings (level range changes with sensitivity setting)			
			Sensitivity	Level range		
			-10.0 to -19.9	70 dB to 120 dB in 10-dB steps		
			-20.0 to -29.9	80 dB to 130 dB in 10-dB steps		
			-30.0 to -39.9	90 dB to 140 dB in 10-dB steps		
			-40.0 to -49.9	100 dB to 150 dB in 10-dB steps		
			-50.0 to -59.9	110 dB to 160 dB in 10-dB steps		
Tim	ne weighting characteristics	H	E S 10 ms (IIS C	1509-1 Class 1 electrical characteris	tice)	
	splay	Segment-type LCD with backlight (constantly on)				
	Display contents			neous value (1-s cycle), bar graph (100-	ms cycle)	
Warning indications		LED x 2				
	Right-side LED	Н	Normally out, Lights	s up in red to indicate overload.		
	Left-side LED			then linked to UV-22). Normally out. Lights up to i	ndicate Master operation	
Filters						
ſ	HPF (attenuation -18 dB/oct,		20 Hz, OFF			
	-3 dB drop)		user filter supporte	d with UV-22)		
Ī	LPF (attenuation -18 dB/oct,		20 kHz、OFF	•		
	-3 dB drop)		user filter supporte	d with UV-22)		

AC output	(for calibration of subsequent unit)  Sine wave 1 kHz ±2 %, output signal 0.5 V (RMS) ±2 %
DC output	+3.2 V ±1 %
Output	BNC connector
AC output	Output impedance 600 Ω
Output voltage	1 V (RMS) ±2 % at range full-scale point
Max. output voltage	±5 V (peak) (no overload)
Dynamic range	80 dB or more (1 Hz to 80 kHz), 85 dB or more (20 Hz to 20 kHz)
Load impedance	10 kΩ or more
DC output	Output impedance 50 Ω
Output voltage	+3.5 V±1 % at range full-scale point (0.5 V/10 dB)
Max. output voltage	+5 V
Dynamic range	40 dB or more (1 Hz to 80 kHz), 60 dB or more (20 Hz to 20 kHz)
Output impedance	10 kΩ or more
Residual noise	Input converted residual noise
	4 μV(RMS) or less (Z, 1 Hz to 80 kHz), 2 μV(RMS) or less (Z, 20 Hz to 20 kHz),
	1.5 μV(RMS) or less (A, C)
Power supply	9 V to 15 V DC
	Suitable AC adapter: NC-99A, Battery Pack Unit BP-17,
	Automotive 12 V battery can also be used
Temperature/humidity range	-10 °C to +50 °C, max. 90 % RH (no condensation)
for operation	. , ,
Dimensions and weight	150 (H) × 36 (W) × 179 (D) mm (without protruding parts), approx. 500 g
Accessories	Link plate x 1

■ Options

Name	Model
Measurement microphone	Various
Preamplifier	Various
7-p microphone extension cable	EC-04 (2 m and up)
BNC-BNC cable	NC-39A
BNC-BNC coaxial cable	EC-90A (2 m and up)
Link plate	UV160070

#### **UV-15 Specifications**

Number of measurement channels   1	· ·	
Connectors  Microdot connector  CCLD (Constant Current Line Drive)  For accelerometer with integrated preamplifier (24 V 4 mA)  Courrent Line Drive)  For TEDS compliant accelerometer with integrated preamplifier (24 V 4 mA)  7-pin preamplific connector  For connection of piezoelectric accelerometer via preamplifier (24 V 4 mA)  7-pin preamplific connector  For connection of piezoelectric accelerometer via preamplifier (24 V 4 mA)  Measurement modes and units  Display characteristics  RMS, EQ PEAK (RMS x √2), EQ P-P (EQ PEAK × 2)  Range selection  7 settings (range changes with sensitivity setting)  Sensitivity  0.100 to 0.999  VEL (velocity): 10, 30, 100, 300, 1 000, 300, 1 000  DISP (displacement): 1, 3, 10, 30, 100, 300, 1 000  Sensitivity  ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000  Sensitivity  ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100  DISP (displacement): 0.1, 0.3, 1, 3, 10, 30, 100  Sensitivity settings  Setting range  0.100 to 0.999 in 0.01 increments, 1.00 to 9.99 in 0.01 increments, 10.0 to 99.9 in 0.1 increments  Units  PC/(m/s²)  Piezoelectric accelerometer  mV/(m/s²)  Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS compliant preamplifier, piezoelectric accelerometer via preamplifier (VP-26A)  Prequency range  ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  JiSP (displacement)  Jisplay  Segment-type LCD with backlight (constantly on)  Display  Segment-type LCD with backlight (constantly on)  Display  Segment-type LCD with backlight (constantly on)  Display  Segment-type LCD with backlight (constantly on)	Inputs	
Microdot connector   For piezoelectric accelerometer (max. input charge 100,000 pC)		1
CCLD (Constant Current Line Drive)   For accelerometer with integrated preamplifier (24 V 4 mA)   For TEDS compliant accelerometer with integrated preamplifier (24 V 4 mA)   For TEDS compliant accelerometer with integrated preamplifier (24 V 4 mA)   For TEDS compliant accelerometer via preamplifier (24 V 4 mA)   For preamplifier (24 V 4 mA)   For DEDS compliant accelerometer via preamplifier (24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack (Pack 24 V 4 mA)   For Consecting of Pack 24 V 4 mA)   For Consecting		
Current Line Drive   For TEDS compliant accelerometer with integrated preamplifier (24 V 4 mA)   7-pin preamplifier connection of piezoelectric accelerometer via preamplifier (corrector piezopeloctric accelerometer via preamplifier (24 V 4 mA)   7-pin preamplifier (corrector piezopeloctric accelerometer via preamplifier (24 V 4 mA)   7-pin preamplifier (corrector piezopeloctric accelerometer via preamplifier (24 V 4 mA)   7-pin preamplifier (24 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V 5 V		
T-pin preemplifier connector   For connection of piezoelectric accelerometer via preamplifier (VP-26A) (max. input voltage ±10 V)	CCLD (Constant	
Identifying PROCEURE-03   (VP-26A) (max. input voltage ±10 V)	Current Line Drive)	For TEDS compliant accelerometer with integrated preamplifier (24 V 4 mA)
Measurement modes and units         ACC (acceleration): m/s², VEL (velocity): mm/s, DISP (displacement): mm           Display characteristics         RIMS, EQ PEAK (RMS x √²), EQ P-P (EQ PEAK x 2)           Range selection         7 settings (range changes with sensitivity setting)           Sensitivity         ACC (acceleration): 10, 30, 100, 300, 100, 300, 100, 300, 1000           0.100 to 0.999         VEL (velocity): 10, 30, 100, 300, 100, 300, 1000           Sensitivity         ACC (acceleration): 1, 3, 10, 30, 100, 300, 1000           Sensitivity         ACC (acceleration): 1, 3, 10, 30, 100, 300, 1000           Sensitivity         ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100           Sensitivity         ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100           Sensitivity settings         Sensitivity settings           Setting range         0.100 to 0.999 in 0.01 increments, 1.00 to 9.99 in 0.1 increments           Units         pc/(m/s²)           Piezoelectric accelerometer           mV/(m/s²)         Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)           Frequency range         1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)           VEL (velocity)         3 Hz to 500 htz (AC output tolerance ±10 %)           VEL (velocity)         3 Hz to 500 htz (AC output tolera	7-pin preamplifier connector	For connection of piezoelectric accelerometer via preamplifier
Display characteristics	(connector type PROCEDURE-03)	(VP-26A) (max. input voltage ±10 V)
Range selection         7 settings (range changes with sensitivity setting)           Sensitivity         ACC (acceleration): 10, 30, 100, 300, 1 000, 3 000, 1 000           0.100 to 0.999         VEL (velocity): 10, 30, 100, 300, 1 000, 3 000, 1 000           Sensitivity         ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000           Sensitivity         ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000           DISP (displacement): 0.1, 0.3, 1, 3, 10, 30, 100           Sensitivity         ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100           Sensitivity         ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100           VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100           USP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 0.3, 10           Sensitivity settings           Setting range         0.100 to 0.999 in 0.01 increments, 10.0 to 9.99 in 0.1 increments           Units         piczoelectric accelerometer           ImV/(m/s²)         Piezoelectric accelerometer           mV/(m/s²)         Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS           Frequency range         ACC (acceleration)         1 Hz to 15 kHz (AC output tolerance ±5%),           VEL (velocity)         3 Hz to 30 kHz (AC output tolerance ±10%)           VEL (velocity)         3 Hz to 500 Hz (AC output tolerance ±10%)           Display         Segment-type LCD with backlight (constantly	Measurement modes and units	ACC (acceleration): m/s², VEL (velocity): mm/s, DISP (displacement): mm
Sensitivity   ACC (acceleration): 10, 30, 100, 300, 1 000, 3 000, 1 0 000	Display characteristics	RMS, EQ PEAK (RMS x √2), EQ P-P (EQ PEAK × 2)
0.100 to 0.999   VEL (velocity): 10, 30, 100, 300, 1 000, 3 000, 1 0 000		
DISP (displacement): 1, 3, 10, 30, 100, 300, 1 000  Sensitivity ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000  VEL (velocity): 1, 3, 10, 30, 100, 300, 1 000  DISP (displacement): 0.1, 0.3, 1, 3, 10, 30, 100  Sensitivity ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100  VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100  DISP (displacement): 0.10, 0.3, 1, 3, 10, 30, 100  VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100  DISP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 3, 10  Sensitivity settings  Setting range 0.100 to 0.999 in 0.001 increments, 10.0 to 9.99 in 0.1 increments  Units  pC/(m/s²) Piezoelectric accelerometer  mV/(m/s²) Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)  Frequency range  ACC (acceleration) 1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity) 3 Hz to 3 kHz (measurement value tolerance ±5 %)  Disple (displacement) 3 Hz to 500 Hz (AC output tolerance ±10 %)  Segment-type LCD with backlight (constantly on)  Display Contents UciD×2  Right-side LED Normally out. Lights up in red to indicate overload	Sensitivity	ACC (acceleration): 10, 30, 100, 300, 1 000, 3 000, 10 000
Sensitivity   ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000	0.100 to 0.999	VEL (velocity): 10, 30, 100, 300, 1 000, 3 000, 10 000
1.00~9.99		DISP (displacement): 1, 3, 10, 30, 100, 300, 1 000
DISP (displacement): 0.1, 0.3, 1, 3, 10, 30, 100  Sensitivity ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100  VEL (velocity) = 0.1, 0.3, 1, 3, 10, 30, 100  DISP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 3, 10  Sensitivity settings  Setting range 0.100 to 0.999 in 0.001 increments, 1.00 to 9.99 in 0.01 increments, 10.0 to 99.9 in 0.1 increments  Units  PC/(m/s²) Piezoelectric accelerometer  mV/(m/s²) Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)  Frequency range  ACC (acceleration) 1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity) 3 Hz to 38 kHz (measurement value tolerance ±5 %)  Display Segment-type LCD with backlight (constantly on)  Display Contents  Alarm indication LED×2  Right-side LED  Normally out. Lights up in red to indicate overload	Sensitivity	ACC (acceleration): 1, 3, 10, 30, 100, 300, 1 000
Sensitivity   ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100     10.0~99.9   VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100     DISP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 3, 10   Sensitivity settings	1.00~9.99	VEL (velocity): 1, 3, 10, 30, 100, 300, 1 000
10.0~99.9   VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100		DISP (displacement): 0.1, 0.3, 1, 3, 10, 30, 100
DISP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 3, 10  Sensitivity settings  Setting range  0.100 to 0.999 in 0.001 increments, 1.00 to 9.99 in 0.01 increments, 10.0 to 99.9 in 0.1 increments  Units  pC/(m/s²)  Piezoelectric accelerometer  MV/(m/s²)  Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS  compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)  Frequency range  ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %) DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Histh-side LED  Normally out. Lights up in red to indicate overload	Sensitivity	ACC (acceleration): 0.1, 0.3, 1, 3, 10, 30, 100
Sensitivity settings	10.0~99.9	VEL (velocity): 0.1, 0.3, 1, 3, 10, 30, 100
Setting range		DISP (displacement): 0.01, 0.03, 0.1, 0.3, 1, 3, 10
Units    PC/(m/s²)   Piezoelectric accelerometer	Sensitivity settings	
Piezoelectric accelerometer   Piezoelectric accelerometer   Piezoelectric accelerometer with integrated TEDS   MV/(m/s²)   Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS   Accelerometer with integrated TEDS   Compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)	Setting range	0.100 to 0.999 in 0.001 increments, 1.00 to 9.99 in 0.01 increments, 10.0 to 99.9 in 0.1 increments
mV/(m/s²)  Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)  Frequency range  ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %) DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Right-side LED  Normally out. Lights up in red to indicate overload	Units	
compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)  Frequency range  ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %) DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication  LED×2  Right-side LED  Normally out. Lights up in red to indicate overload	pC/(m/s²)	Piezoelectric accelerometer
Frequency range  ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %), DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication  LED×2  Right-side LED  Normally out. Lights up in red to indicate overload	mV/(m/s²)	Accelerometer with integrated preamplifier, Accelerometer with integrated TEDS
ACC (acceleration)  1 Hz to 15 kHz (AC output tolerance ±5 %), 0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %)  DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication  LED×2  Right-side LED  Normally out. Lights up in red to indicate overload		compliant preamplifier, piezoelectric accelerometer connected via preamplifier (VP-26A)
0.5 Hz to 30 kHz (AC output tolerance ±10 %)  VEL (velocity) 3 Hz to 36 kHz (measurement value tolerance ±5 %)  DISP (displacement) 3 Hz to 500 Hz (AC output tolerance ±10 %)  Display Segment-type LCD with backlight (constantly on)  Display contents  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication  LED×2  Right-side LED  Normally out. Lights up in red to indicate overload	Frequency range	
VEL (velocity)  3 Hz to 3 kHz (measurement value tolerance ±5 %)  DISP (displacement)  3 Hz to 500 Hz (AC output tolerance ±10 %)  Display  Segment-type LCD with backlight (constantly on)  Display contents  Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication  LED×2  Right-side LED  Normally out. Lights up in red to indicate overload	ACC (acceleration)	1 Hz to 15 kHz (AC output tolerance ±5 %),
DISP (displacement) 3 Hz to 500 Hz (AC output tolerance ±10 %)  Display Segment-type LCD with backlight (constantly on)  Display contents Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication LED×2  Right-side LED Normally out. Lights up in red to indicate overload		0.5 Hz to 30 kHz (AC output tolerance ±10 %)
Display Segment-type LCD with backlight (constantly on)  Display contents Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)  Alarm indication LED×2  Right-side LED Normally out. Lights up in red to indicate overload	VEL (velocity)	3 Hz to 3 kHz (measurement value tolerance ±5 %)
Display contents   Unit settings, instantaneous value (1-s cycle), bar graph (100-ms cycle)   Alarm indication   LED×2     Right-side LED   Normally out. Lights up in red to indicate overload	DISP (displacement)	3 Hz to 500 Hz (AC output tolerance ±10 %)
Alarm indication LED×2 Right-side LED Normally out. Lights up in red to indicate overload	Display	Segment-type LCD with backlight (constantly on)
Right-side LED Normally out. Lights up in red to indicate overload	Display contents	
	Alarm indication	LEDx2
Left-side LED Master/Slave indication (when linked to UV-22). Normally out. Lights up to indicate Master operation		
	Left-side LED	Master/Slave indication (when linked to UV-22). Normally out. Lights up to indicate Master operation

Filters	
HPF (attenuation -18 dB/oct,	3 Hz, 5 Hz, 10 Hz, 15 Hz, 20 Hz, 30 Hz, 50 Hz, 100 Hz, 150 Hz, 200 Hz, OFF
-10 % dB drop)	(user filter supported with UV-22)
LPF (attenuation -18 dB/oct,	300 Hz, 500 Hz, 1 kHz, 1.5 kHz, 2 kHz, 5 kHz, 10 kHz, 15 kHz, 20 kHz, OFF
-10 % dB drop)	(user filter supported with UV-22)
Calibration signal output	(for calibration of subsequent unit)
AC output	Sine wave 80 Hz ±2 %
Output signal	1 V (RMS) ±2 % (RMS indication), 1 V (peak) ±2 % (EQ PEAK indication),
	1 V (peak-to-peak) ±2 % (EQ P-P indication)
DC output	1 V
Outputs	BNC connector × 2
AC output	Output impedance 50 Ω
Output voltage accuracy	ACC (acceleration) 1 V ±2 %, VEL (velocity) 1 V ±3 %,
(80 Hz full-scale)	DISP (displacement) 1 V ±5 %
Maximum output voltage	±10 V (peak) or more
DC output	Output impedance 50 Ω
Output voltage accuracy	ACC (acceleration) 1 V ±2 %, VEL (velocity) 1 V ±3 %, DISP (displacement) 1 V ±5 %
Maximum output voltage	10 V or more
Residual noise	Input capacitance 1 000 pF, sensitivity 5.00 pC/(m/s²), piezoelectric accelerometer,
(representative characteristics)	HPF OFF, LPF OFF, minimum range ACC (acceleration) 0.01 m/s <sup>2</sup> (RMS) or less,
	VEL (velocity) 0.1 mm/s (RMS) or less, DISP (displacement) 0.0015 mm (RMS) or less
Power supply	9 V to 15 V DC, Suitable AC adapter: NC-99A, Battery Pack Unit BP-17,
	Automotive 12 V battery can also be used
Temperature/humidity	-10 °C to +50 °C, max. 90 % RH (no condensation)
range for operation	
Dimensions and weight	150 (H) x 36 (W) x 179 (D) mm (without protruding parts), approx. 500 g
Accessories	Link plate x 1

#### ■ Options

Name	Model
Piezoelectric accelerometer	Various
Accelerometer cable	Various
Vibration meter preamplifier	VP-26A
Vibration level meter/vibration meter accelerometer cable	EC-02S (3 m and up)
BNC-BNC cable	NC-39A
Link plate	UV160070

#### **Options** (One of the following is required for supplying power)



Links to UN-14 or UV-15.

Up to 3 units can be operated on battery power (AC adapter connection enables operation of 1 to 16 units)

- IEC R14 (size "C") x 8
- Continuous operation capability:
   approx. 8hours\* (alkaline batteries, CHARGE-setting,normal operating)
   approx. 6hours\* (alkaline batteries, CCLD-setting,normal operating)
   \*3 units connected, at 25 °C ambient temperature
  (will differ according to environmental conditions and unit settings)

Battery Pack Unit

BP-17





**NC-99A ←** 

■ Size: 149 (H) x 480 (W) x 320 (D) mm



Rack Mounting Base **CF-27**(JIS compliant)

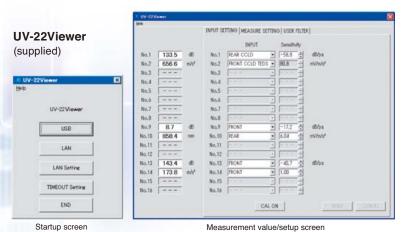
#### Interface Unit

# **UV-22**<sup>66</sup>

The UV-22 is a dedicated interface unit for use with the UN-14 and UV-15. Both USB and Ethernet interfaces are provided, allowing control of the UN-14 and UV-15 from a computer. The supplied UV-22Viewer software makes it easy to establish settings for the UN-14 and UV-15 and check measurement results. High-pass filter and low-pass filter cutoff frequency (user filter \*1) settings can also be made. When multiple UN-14/UV-15 units are connected, the Master/Slave function simplifies operation.

\*\* The 2-channel charge amplifier UV-16 cannot be connected. \*1 Can be set in 1/3 octave band steps within the specified frequency range.





### UN-14 and UV-15 communication specifications Settings control and check Input selection, sensitivity, HPF, LPF, compensation

Cottingo contiror and oncont	input concentrit, concentrity, in it, at it, componential
(for UN-14 and UV-15)	
For UN-14 only	Frequency weighting, level range, time weighting
For UV-15 only	Measurement mode, range, display characteristics
Measurement values	Instantaneous value or max. value, every 100 ms
UN-14/UV-15 interface	
Number of connected units	Up to a combined total of 16 UN-14/UV-15 units
Computer interfaces	
USB	USB 1.1 (one UV-22 per computer supported)
Connector	Mini B
Ethernet	10/100 Base-TX (one UV-22 per computer supported)
Temperature/humidity	-10 °C to +50 °C, max. 90 % RH
range for operation	
Power supply	9 V to 15 V DC, Suitable AC adapter: NC-99A, Battery Pack Unit BP-17,
	automotive 12 V battery can also be used
Current consumption	Approx. 240 mA (12 V DC, LAN operation)
Dimensions and weight	150(H) × 36(W) × 179(D) mm, approx. 500 g
Supplied accessories	UV-22Viewer software x 1 (CD-ROM), USB cable

#### Example for multi-channel sound/vibration measurement system





JCSS JCSS 0197 RION CO., LTD. is recognized by the JCSS which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IA Japan) which is a signatory to the Asia Pacific Accreditation Cooperation (APAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION CO., LTD. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.



\* Specifications subject to change without notice.





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