

**MILAN+**  
**THE FIRST EVER DIGITAL TABLA-TANPURA**  
**USER MANUAL**

Please read this manual carefully to familiarize yourself with the operation of this digital Indian musical instrument before switching it on.

### **INTRODUCTION**

Congratulations! You are the proud owner of a Radel quality product – the unique Milan+ digital tabla-tanpura.

Radel products are renowned for their excellent tonal quality as well as their reliability. The latest state-of-the-art technology is used in the design as well as manufacture of the products. Being the inventor of these products and pioneer in the field of electronic musical instruments for Indian music, Radel continues improving the existing models and introducing new products. Radel is an ISO 9001:2008 quality certified company. Radel is the new landmark in South Bangalore; a landmark signifying innovation, quality and total commitment to the customer.

### **Aerospace quality in Radel products:**

Radel musical instruments are of the quality of high-precision defence equipment. Our sister concern, Radel Advanced Technology, designs and manufactures products for the defence and aerospace sectors. It is one of the very few companies in the country with the coveted quality certification from the Ministry of Defence. It has gained the reputation of being a quality design and manufacturing organisation, and has supplied sophisticated equipment being used by the defence forces of the country. By using a Radel product, you are therefore assured of the highest quality, and, although you may never need it, dedicated after-sales service.

### **GENERAL INFORMATION**

The Radel Milan+, a unique 2-in-1 Digital Tabla-tanpura, is a sophisticated digital musical instrument for providing sur (pitch) and laya (rhythm) accompaniment to performers of Indian music. It incorporates state of the art technology to produce natural and realistic Tanpura and Tabla sound. It is housed in an attractive, unbreakable, light-weight and safe ABS plastic cabinet.

Size: 230mm x 135mm x 190mm; Weight: approx 1 kg

Voltage: It can be directly operated on any voltage from 90V-260V AC or on a set of batteries (it uses six AA size batteries of 1.5V each). It automatically switches over to batteries (DC) on failure of mains power (AC). Input Wattage (power consumption): <25W

A line-out socket (1/8" ) is provided.

### **The Special Features of the Milan+ are:**

1. Generation of amazing realistic Tanpura sound.
2. Generation of stunning realistic Tabla sound.
3. Can play both tabla and tanpura together or each separately
4. Adjust individual volume of tanpura and tabla to suit user taste
5. 60 pre-set thekas provided.
6. Digital LCD display.
7. The user can store 10 settings of Tanpura and Tabla together manually, apart from the auto-save feature.

### **CAUTION:**

1. Provide a gap of at least 10 seconds between switching OFF and ON the product.
2. Avoid using the product close to other electronic equipment such as mobile / cordless phones, etc.

### **OPERATION:**

Insert the power cord provided, into the socket at the rear of the instrument. Plug the cord into a standard wall power outlet.

Switch ON the product by pressing the power button.

Note: It has SMPS facility due to which it can be operated directly on any voltage from 90V-260V AC.

### **TANPURA SETTINGS**

1. **Volume control:** Turn the knob clockwise to increase or anti-clockwise to decrease the volume. Volume level can be seen on the LCD display.
2. **Tone control:** To get bass / treble sound turn the knob clockwise to increase treble or anti-clockwise to increase bass. Tone level can be seen on the display.
3. **Tempo Setting:** Press TEMPO button twice to select tanpura tempo; then press ▲ or ▼ button to increase or decrease the tempo. The tempo selection can be seen on the LCD display.
4. **Pancham / Madhyam / Nishad (PA MA NI) Selection:** Press PA MA NI button repeatedly to change to PA to MA to NI to OFF. The selection can be seen on the LCD display.
5. **PLUCK STYLES:** Two pluck styles are provided in the instrument. One style has a pause after the pancham (PA) note and constitutes a cycle of six counts. This style is popular among the South Indian musicians. The other style does not have the pause after PA and this

style is popular among the North Indian musicians. To toggle between the styles, press ▲ and ▼ buttons simultaneously (together). Carnatic style will be shown as 'carnatic' on the display and Hindustani style will be shown as 'hindustani' for a few seconds.

### **TABLA SETTINGS**

1. **60 Thekas** are provided on the Milan+ Tabla. The list of thekas is provided at the end of the manual.

2. **Tempo control for Tabla:** To change Tempo press TEMPO button once to select Tabla tempo. To increase or decrease tempo in small steps, press (Short Press) ▲ or ▼ button repeatedly till the desired tempo is reached. For quicker variation of the tempo in larger steps, press and hold ▲ or ▼ button (Long Press). The tempo can be adjusted from 10 - 600 Matras per Minute. 4 laya ranges will be displayed as the tempo reaches each range: Drut (fastest), Madhyam, Vilambit and AtiVilambit (slowest). The Tempo can be changed from Drut to AtiVilambit or from AtiVilambit to Drut without stopping the theka, in steps of 1 matra per minute.

3. **Volume control:** Rotate the volume knob on the Tabla side clockwise to increase and anti-clockwise to decrease the volume level of Tabla. Volume level can be seen on the LCD display.

4. **Baayaan** (dagga or left-hand) control: Rotate the BAYAN knob in Tabla side clockwise to increase and anti-clockwise to decrease the baayaan volume level. Baayaan level can be seen on the LCD display.

5. **Taal Settings:** The user can select the taal either when the Tabla is stopped, or while it is playing, by pressing Taal ▲ or ▼ buttons. Short press the button for single stepping through the Taal list. By long pressing the button for more than 5 seconds, fast scrolling in steps of 5 is achieved. Press START on the tabla side to play the selected Taal. The display will show the selected taal, Taal number, Taal name, and Number of matras on the LCD. Press STOP to stop the playing of present Taal.

6. **LED indication:** A Laya LED will blink 8 times per matra in Ati-Vilambit, 4 times in Vilambit, twice in Madhyam and once in Drutlaya.

### **COMMON OPERATIONS FOR BOTH TABLA AND TANPURA**

1. **Pitch Range:** The selectable Pitch range that has been provided is from lower octave C to higher octave F#

2. **Pitch Selection:** On selection of any pitch, the pitch of the Tanpura and Tabla will change simultaneously. Press PITCH/OCTAVE button in the 'Control Keys' panel; then press and hold (long press) ▲ or ▼ buttons for coarse pitch change.

**Teep Tabla Feature:** When instrument is playing in the pitch scale from C to F#, by long pressing the PITCH/OCTAVE button, the Tabla pitch can be toggled by one octave without changing the Tanpura pitch. Beyond F#, the tabla will automatically revert back to match the tanpura octave.

3. **Fine-tuning of pitch:** Press PITCH button in the 'Control Keys' panel, then press ▲ or ▼ buttons repeatedly (Short Press) ▲ or ▼ buttons for fine pitch change.

4. **Auto-Save Memory (ASM):** The current selections / settings like pitch, tempo, pluck style, etc., are automatically saved into memory within seconds after the last button-press. If there is an interruption in AC mains power or if the instrument is switched off, then on switching on the instrument again, these settings will automatically be restored. Thus, the user need not worry about losing the selected pitch and other settings, etc.

5. **Ten Memory Settings:** In addition to the above, ten sets of pitch, tempo and pluck style can be saved by the user. That is, ten different users can use the Milan+ with their separate individual settings stored in memory. Once stored, all that the user has to do is to RECALL the particular settings with one touch of the button.

Easy steps for saving in Memory:

1. Select one set of pitch, tempo and pluck style.
2. Press MEM button. The display shows 'MEM 01'.
3. Press STORE ▲ to save the settings.
4. Select another set of pitch, tempo and pluck style.
5. Press MEM button. The display shows 'MEM 02'.
6. Press STORE ▲ to save the settings.

In this way, 10 different user selections of pitch, tempo and pluck style can be stored.

To recall from memory, press MEM button. The display shows the memory location such as MEM 01. Press ▲ or ▼ to go to the selected memory location and press RECALL ▼ to recall that set of selections.

NOTE: The user can play Tanpura alone (by lowering the Tabla volume level to zero) or Tabla (by lowering the Tanpura volume level to zero) or both together by adjusting each volume as desired.

**LIST OF TAALS / THEKAS**

<b>Taal Number</b>	<b>Taal Name</b>
00	Teen 1
01	Teen 2
02	Teen 3
03	Teen 4
04	Teen 5
05	Teen 6
06	Tilwada
07	Addha Teen
08	Chachar
09	Punjabi
10	Deepchandi 1
11	Deepchandi 2
12	Dhamar
13	Ada Chautal 1
14	Ada Chautal 2
15	Jhoomra 1
16	Jhoomra 2
20	Rupak 1
21	Rupak 2
22	Rupak 3
23	Rupak 4
24	Teevra
25	Pashto
30	Vilambit Ek
31	Ek 1
32	Ek 2
33	Chau
40	Jhap 1
41	Jhap 2

42	Jhap 3
43	Jhap 4
44	Sool 1
45	Sool 2
46	Surfakta
47	Sadra
50	Jhampak
51	Matta 1
52	Matta 2
53	Rudra 1
54	Rudra 2
55	Jai 1
56	Jai 2
57	Jai 3
58	Pancham Savari 1
59	Pancham Savari 2
60	Keherwa 1
61	Keherwa 2
62	Keherwa 3
63	Keherwa 4
64	Bhajan
65	Garba
66	Dhumali
67	Lok 1
68	Lok 2
69	Lok 3
70	Jat 1
71	Jat 2
72	Dadra 1
73	Dadra 2
74	Dadra 3