

# KD3300 Series Multiple Channel Remote Control Syntax V4.0

Command format: VSET<X>:<NR2>

1. VSET: command header
2. X: output channel, 1 or 2
3. : separator
4. NR1: parameter

Command Details:

## 1. LOCK<NR1>

Description: LOCK or UNLOCK the front panel

Example: **LOCK1**

LOCK the front panel

Example: **LOCK0**

UNLOCK the front panel

## 2. ISET<X>:<NR2>

Description: sets the output current.

Example: **ISET1:2.225**

Sets the CH1 output current to 2.225A

## 3. ISET<X>?

Description: Returns the output current setting.

Example: **ISET1?**

Returns the CH1 output current setting.

## 4. VSET<X>:<NR2>

Description: Sets the output voltage.

Example: **VSET1:20.50**

Sets the CH1 voltage to 20.50V

## 5. VSET<X>?

Description: Returns the output voltage setting.

Example: **VSET1?**

Returns the CH1 voltage setting.

## 6. IOUT<X>?

Description: Returns the actual output current.

Example: **IOUT1?**

Returns the CH1 output current

## 7. **VOUT<X>?**

Description: Returns the actual output voltage.

Example: **VOUT1?**

Returns the CH1 output voltage.

## 8. **TRACK<NR1>**

Description: selects the operation mode: independent, tracking series, or tracking parallel.

NR1 0: Independent

1: Tracking series

2: Tracking parallel

Example: **TRACK0**

Selects the independent mode.

Note: This command is applied to Multiple-channel models only.

## 9. **BEEP<Boolean>**

Description: Turns on or off the beep. Boolean: boolean logic.

Example: **BEEP1** Turns on the beep.

## 10. **STATUS?**

Description: Returns the POWER SUPPLY status.

Contents 8 bits in the following format

Bit Item Description

0 CH1 0=CC mode, 1=CV mode

1 CH2 0=CC mode, 1=CV mode

2, 3 Tracking 00=Independent, 01=Tracking series, 10=Tracking parallel

6 CH1 0 CH1 OUT OFF, 1 CH1 OUT ON

7 CH2 0 CH1 OUT OFF, 1 CH1 OUT ON

## 11. **\*IDN?**

Description: Returns the identification.

Example: **\*IDN?**

Contents KORAD KD3305P VX.X SN: XXXXXX

## 12. **RCL<NR1>**

Description: Recalls a panel setting.

NR1 0-9: Memory number 0 to 9

Example **RCL1** Recalls the panel setting stored in memory number 1

### 13. SAV<NR1>

Description: Stores the panel setting.

NR1 0-9: Memory number 0 to 9

Example: **SAV1** Stores the panel setting in memory number 1

### 14. OUT<X>:<Boolean>

Description: Turns on or off the output.

X: , 1OR2, refers to CH1 or CH2

Boolean: 0 OFF, 1 ON

Example: **OUT1:1** Turns on the CH1

**OUT1:0** Turns on the CH1

**OUT2:1** Turns on the CH2

**OUT2:0** Turns on the CH2

### 15. OUT<XX>:<Boolean>

Description: Turns on or off the output.

X: ,CH1 CH2

Boolean: 0 OFF, 1 ON

Example: **OUT12:1** Turns on the CH1 and CH2

**OUT12:0** Turns on the CH1 and CH2

### 16. VASTEP<X>:<NR2>, <NR2>, <NR2>, <NR2>

#### VASTOP<X>

Description: Set automatic step voltage output

Example: **VASTEP1:1, 30, 0.1, 0.2**

Set CH1 starting voltage to 1V, ending voltage 30V, step voltage 0.1V and step time **0.2s**; and execute the output.

#### VASTOP1

The step voltage on CH1 stops.

**VASTEP2:30, 1, 0.1; 0.01**

Set CH2 starting voltage to 30V, ending voltage 1V, step voltage 0.1V and step time **0.01s**; and execute the output.

#### VASTOP2

The step voltage on CH2 stops.

### 17. VSTEP<X>:<NR2>

#### VUP<X>

#### VDOWN<X>

Description: Set trigger step voltage output

Example:

**VASTEP 1:1.5** Set CH1 trigger step voltage 1.5V

**VUP1** Set CH1 voltage up 1.5V

**VDOWN1** Set CH1 voltage down 1.5V

#### **18. IASTEP<X>:<NR2>, <NR2>, <NR2>, <NR2>**

**IASTOP<X>**

Description: Set automatic step voltage output

Example:

**IASTEP2:1, 3, 0.1, 1**

**OUT1:1**

Set CH1 starting current to 1V, ending current 30V, step current 0.1V and step time 1s; and execute the CH1 output.

**IASTOP2**

The step voltage on CH2 stops.

#### **19. ISTEP<X>:<NR2>**

**IUP<X>**

**IDOWN<X>**

Description: Set trigger step current output

Example:

**ISTEP 1:0.5** Set CH1 trigger step current 0.5A

**IUP1** Set CH1 current up 0.5A

**IDOWN1** Set CH1 current down 0.5A