

A COMPACT DIGITAL AUDIO MIXER

Fall 2015 Final Project

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MIXING APPLICATIONS

- Small Venue, Small Bands, No Drum Microphones
- Live DJ Sets, Performance Mixing
- Solo Musicians, Street Performers
- Modular Synthesizer Rigs
- Performance Artists
- USB Audio Interface

INSPIRATION

Flattering things.

Mackie VLZ Series Compact Mixers



- Very dense control and jack layout.
- Reputation for functionality and reliability.
- Mute button sends to a monitor bus.
- “Pocket Multi-Tool”

Rane TTM 56 DJ Mixer



- RIAA filter turntable inputs.
- 3 band full cut equalizers.
- Stereo effects loop.
- DJ style headphone monitoring.
- “Battle Mixer”

ProCo Turbo Rat Distortion Pedal



- Extremely rugged:
 - Clam shell design.
 - Two pieces of bent steel.
 - Mated by rubber foot screws.
- All components panel mounted.
- Clear obvious control labels.
- “Stomp Box”

THE RESULT

Pretty marketing images for presales.



INPUT 2
INST
MIC
PHANTOM POWER
ON
OFF

HI-GAIN CH A HI-GAIN CH B HI-GAIN CH C

STEREO CH 1 STEREO CH 2 STEREO CH 3 STEREO CH 4

DT-MX342

LEFT MONO
RIGHT

LOW MID HIGH
GAIN
STEREO SEND STEREO RETURN
MASTER OUT 2 MASTER OUT 1

USB SEND SOURCE
MUTE DIM
MUTE DIM

HEADPHONES

HOLD BUS BUTTON TO SELECT BOTH. HOLD AGAIN TO SELECT PREVIOUS OR TAP TO SELECT OTHER.

2.0W @ 16Ω
0.5W @ 64Ω
E-ATTENDED LISTEN HERE AT
HIGH VOLTAGE. CAN BE 40-100V
PERMANENTLY DAMAGING LOSS.



darker technologies

DT-MX342

darker technologies
MADE IN CALIFORNIA

MODEL:
DT-MX342
SERIAL:
000101000001

POWER
PSU INPUT
ON

USB

PHANTOM POWER

HIGH GAIN

HEADPHONES

CENTER

CENTER

CENTER

CENTER

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DIM

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DIM

RIGHT

LEFT

MONO

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

OFF

ON

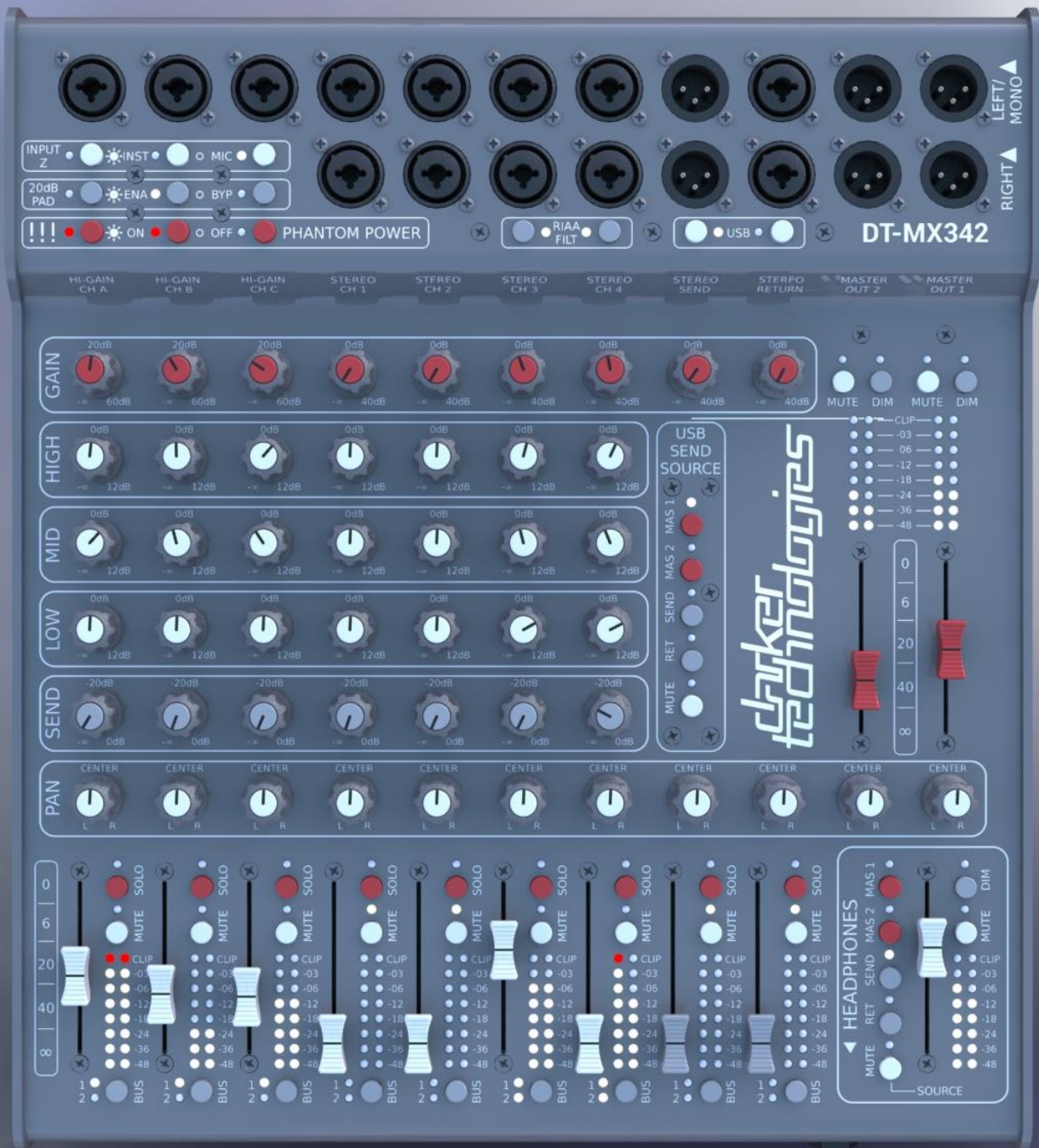
OFF

ON

OFF

ON

OFF



INPUT Z INST MIC

20dB PAD ENA BYP

PHANTOM POWER ON OFF

RIAA FILT

USB

DT-MX342

HI-GAIN CH A HI-GAIN CH B HI-GAIN CH C STEREO CH 1 STEREO CH 2 STEREO CH 3 STEREO CH 4 STEREO SEND STEREO RETURN MASTER OUT 2 MASTER OUT 1

GAIN 20dB 60dB 20dB 60dB 20dB 60dB 0dB 40dB 0dB 40dB 0dB 40dB 0dB 40dB 0dB 40dB 0dB 40dB

HIGH 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB

MID 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB

LOW 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB 0dB 12dB

SEND -20dB 0dB -20dB 0dB -20dB 0dB -20dB 0dB -20dB 0dB -20dB 0dB -20dB 0dB -20dB 0dB

PAN CENTER L R CENTER L R CENTER L R CENTER L R CENTER L R CENTER L R CENTER L R CENTER L R CENTER L R

MUTE SOLO CLIP 0 20 40 8 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2 BUS 1 2

HEADPHONES MUTE RET SEND MAS 2 MAS 1 SOURCE MUTE SOLO CLIP 0 20 40 8 1 2 BUS 1 2 BUS 1 2

Clacktel Technologies

CLIP -03 -06 -12 -18 -24 -36 -48

0 6 20 40 80

POWER

ON

PSU INPUT
5VDC 5A
Pin 1,2: POS
Pin 3,4: NEG

USB

clarker
technology
MADE IN CALIFORNIA

INPUT Z INST MIC

20dB PAD ENA BYP

!!! ON OFF PHANTOM POWER

RIAA FILT

USB

HI-GAIN CH A

HI-GAIN CH B

HI-GAIN CH C

STEREO CH 1

STEREO CH 2

STEREO CH 3

STEREO CH 4

STEREO SEND

STEREO RETURN

GAIN

HIGH

MID

USB SEND SOURCE

MAS 1 MAS 2 RET SEND

LOW
SEND
PAN

12dB 12dB 12dB 12dB 12dB 12dB 12dB 12dB

0dB 0dB 0dB 0dB 0dB 0dB 0dB 0dB

L R L R L R L R L R L R L R L R

MUTE RET SEND M

0
6
20
40
80

SOLO MUTE CLIP -03 -06 -12 -18 -24 -36 -48

BUS 1 2

HOLD BUS BUTTON TO SELECT BOTH. HOLD AGAIN TO SELECT PREVIOUS OR TAP TO SELECT OTHER.



HEADPHONES

MAS 2 MAS 1

SOURCE

2.0W @ 16Ω
0.5W @ 64Ω
EXTENDED LISTENING AT
HIGH VOLUME CAN LEAD TO
PERMANENT HEARING LOSS

