

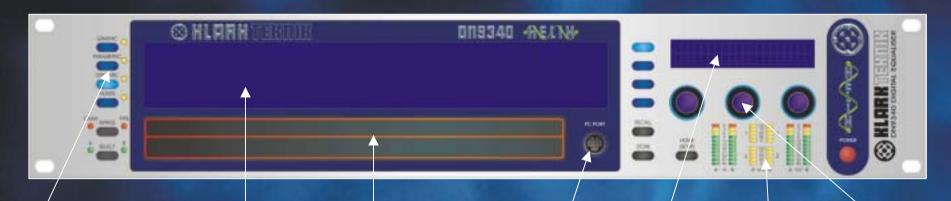


#### What is Helix??? It's a...

- © Five-mode dual 31-band graphic equaliser
- © Dual 12-band parametric equaliser
- Four configurable filters per channel
- © Full function delay line per channel
- Two dynamic EQ filters per channel
- Numerous supplementary functions
- SEQ for every application, in any combination







Main function keys

Split touch strip

Secondary display

Rotary encoders

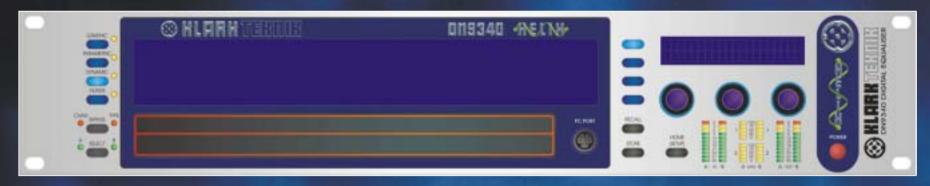
Large, highresolution LCD display

PC access

Full input, output and Dynamic EQ metering



### Touch Strip Operation



#### **❸** *Graphic EQ:*

- One touch selects fader, values shown on small display
- Upper strip boosts, lower strip cuts
- Hold for continuous fader movement, fast in cut / slow in boost
- - Parametric / configurable filters / T-DEQ
- One touch selects filter, values shown on small display
- Hold and slide to move filter

## Helix Home Page



- Real time view of composite audio response of unit
- Displays what functions are operative
- © Control overall gain and delay plus markers
- Very easy to see what's going on...

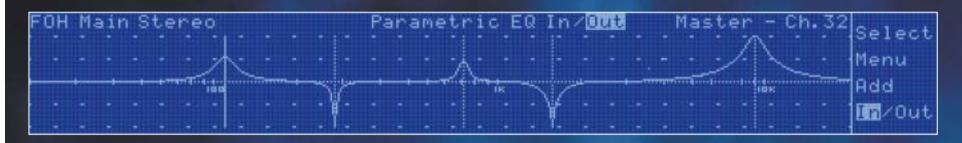


### Graphic Equalisation Functions



- Dual 31-band graphic equaliser
- © Choice of Q: constant, symmetrical and proportional, plus DN360 and DN27 emulations

# Parametric Equalisation Functions



- Dual 12-band parametric equaliser
- ⊗ All bands configurable 20Hz to 20kHz
- Simple and intuitive operation via encoders and / or touch strip



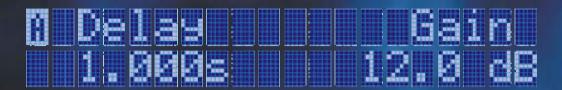
### Configurable Filters



- © Four filters (up to 8<sup>th</sup>-order) available per channel
- Each filter configurable to be:
- High pass / Low pass
- High shelf / Low shelf
- Intuitive operation via encoders or touch strip
- Individual channel and overall function bypass



# Delay Line

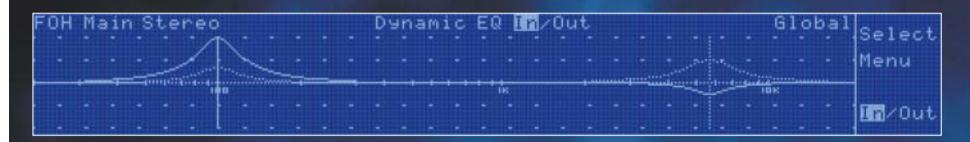


(small alpha numeric display)

- Full function delay line per channel
- Up to 1s delay available
- Individual channel and overall function bypass



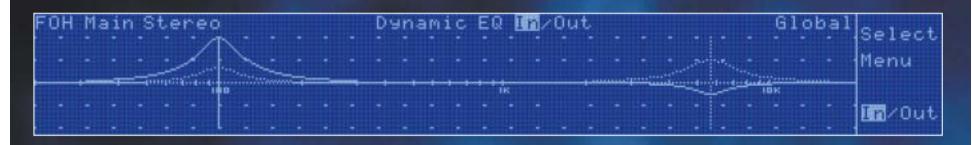
#### Dynamic Equalisation Filters (T-DEQ)



- Unique functionality:
- THRESHOLD DEPENDENT EQUALISATION
- (NOT frequency-conscious compression)
- Programmable in 4 steps:
- 1. Select frequency to be controlled
- 2. Select 'Q', attack and release values
- 3. Select upper and / or lower threshold values
- 4. Select upper and / or lower level values



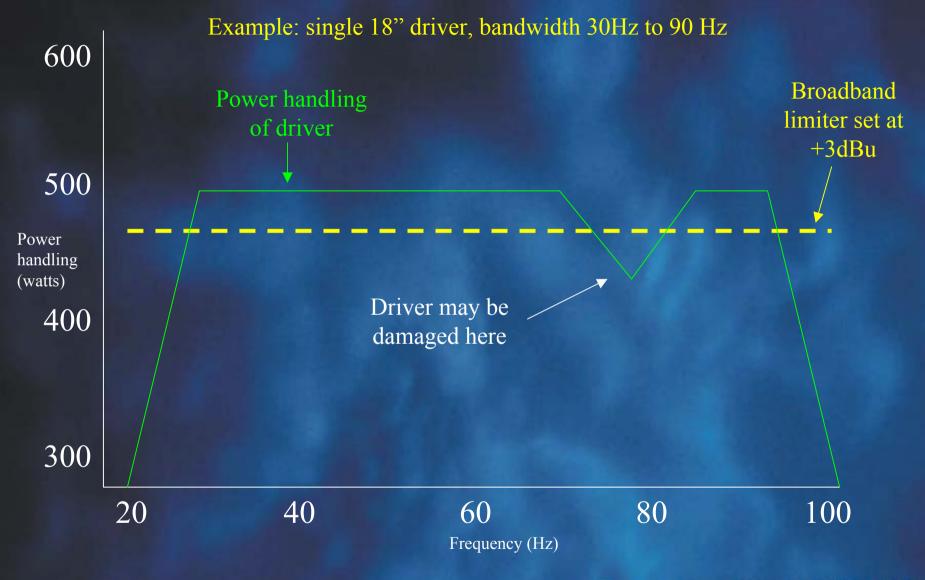
#### Dynamic Equalisation Filters



- This means that any frequency can be programmed to be at a specific level when it reaches a chosen amplitude, i.e.:
- At −30dB (= quiet), you want +6dB at 80Hz for added bass at low level, but at 0dB (= loud) you want −3dB at 80Hz. Simply use one of the dynamic filters in HELIX to achieve this. Or...
- © Configure one filter to be a lower-threshold shelf with a suitable boost figure, then use as a channel insert to enhance quiet vocals. Or...

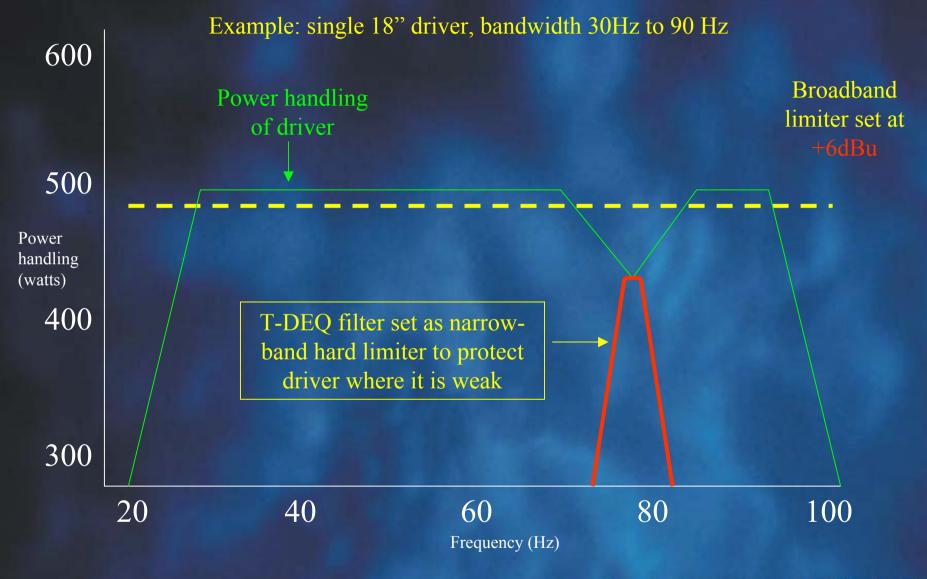


# Broadband limiter setting for driver protection





# Broadband limiter setting for driver protection





#### Unique advantage of T-DEQ

- Because you can choose to limit only the specific frequency or frequency range you require, you can raise the broadband limiter threshold whilst using T-DEQ to protect the driver. This means:
- MORE POWER AND DYNAMICS
- MORE PROTECTION AGAINST DRIVER FAILURE

Impossible? Not with Helix!



#### Supplementary Functions

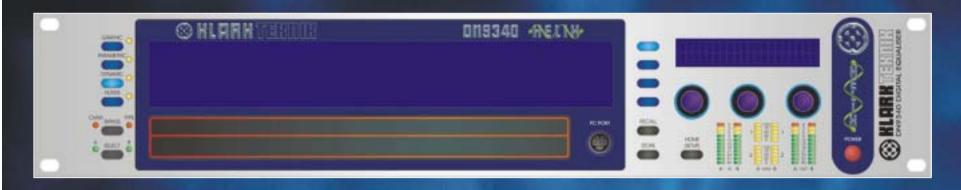


Auto-gain ranging, a feature unique to Klark Teknik. This automatically and instantly compensates for gain changes caused by cutting or boosting any frequencies. So your graphic EQ curve has no effect at all on the gain structure of the system – NOTHING ELSE DOES THIS!

Markers – 8 x
user definable
markers to
indicate
important or
specific
frequency
points such as
crossovers

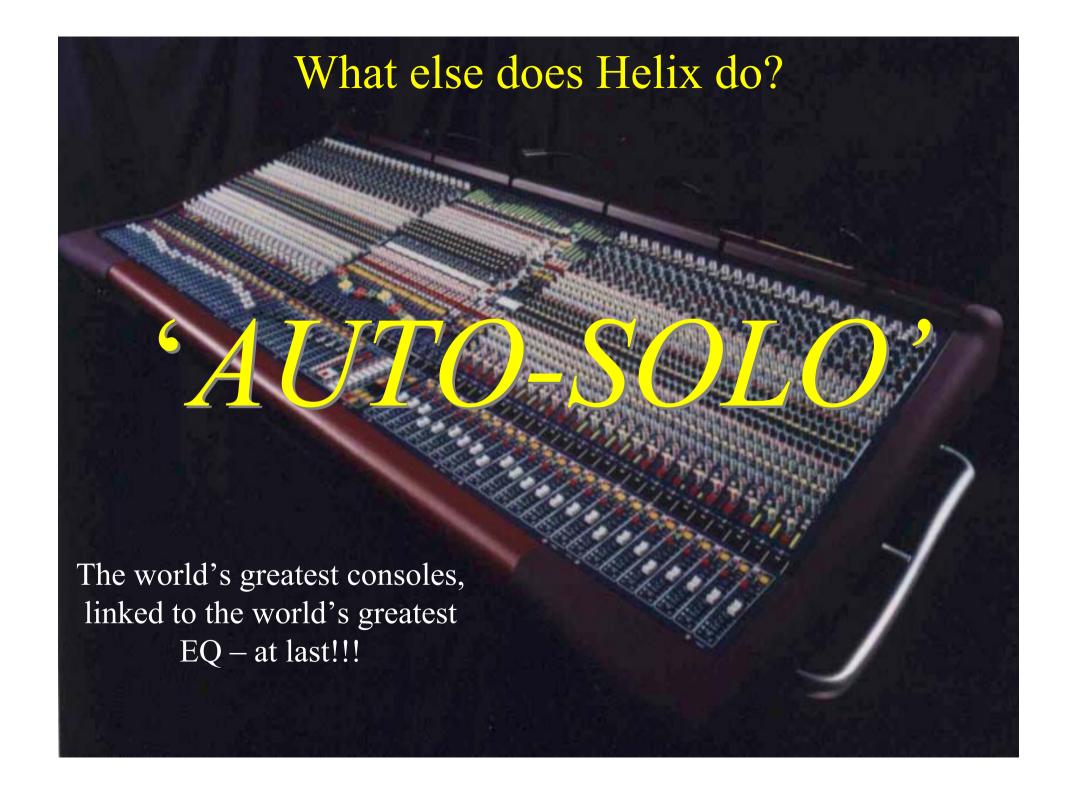


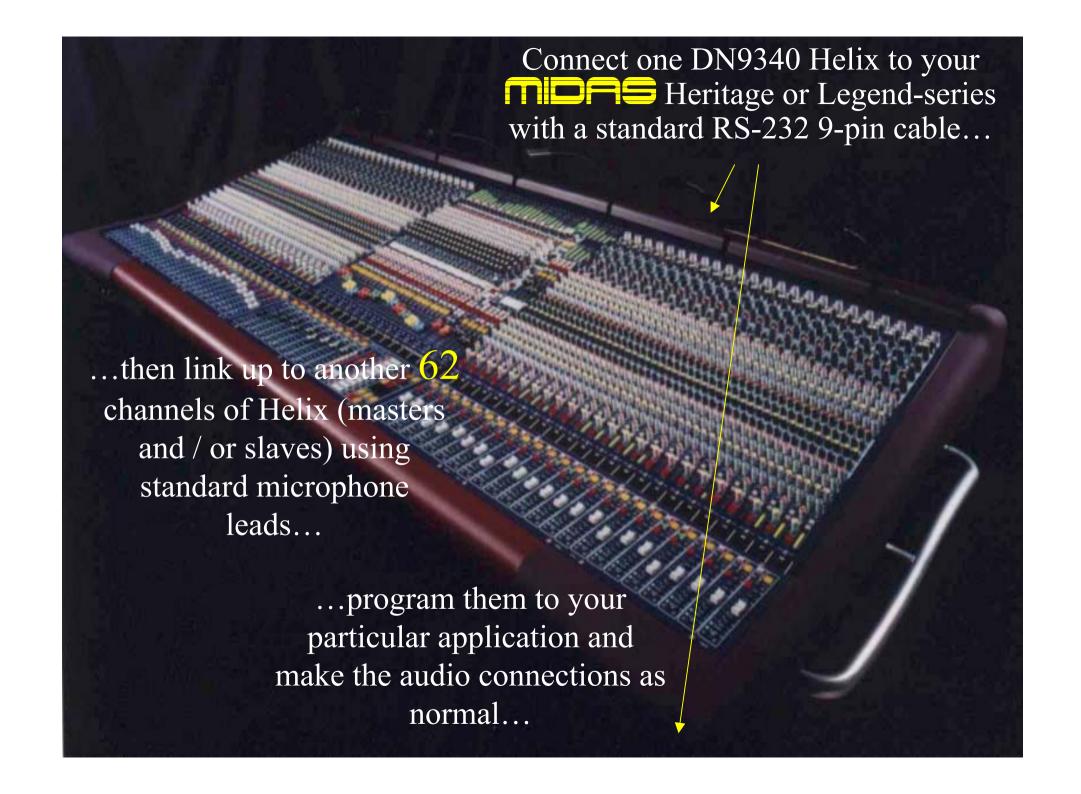


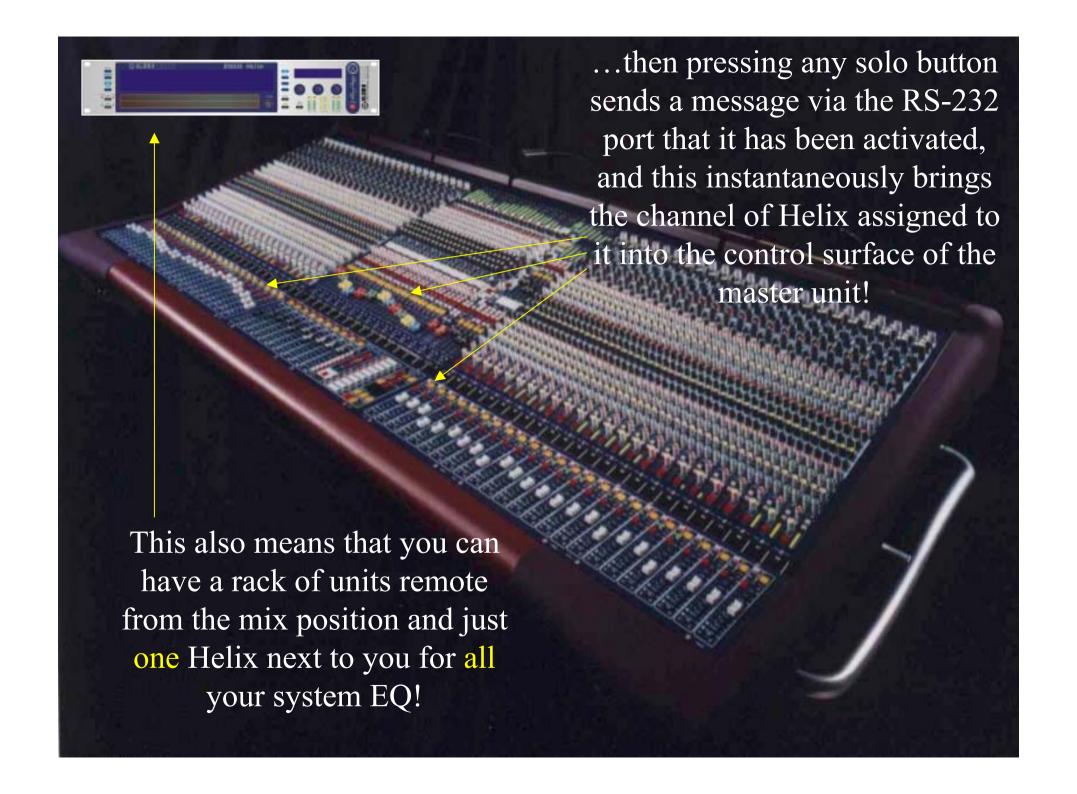


#### **SYSTEM PERFORMANCE**

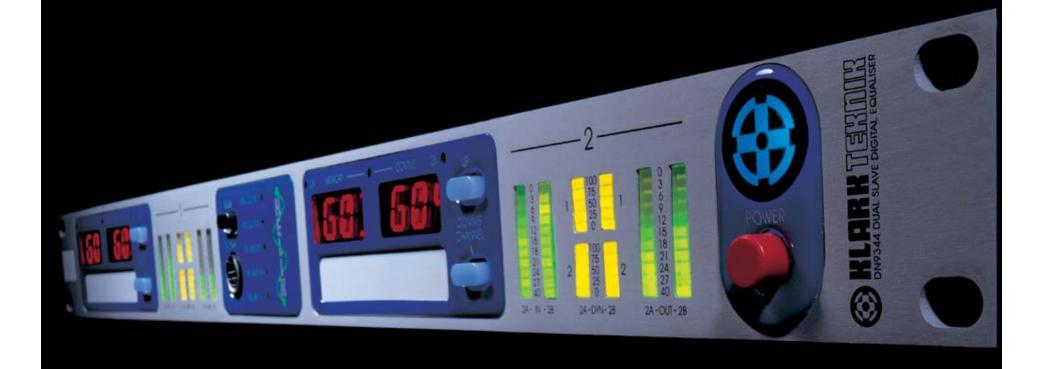








#### Just when you thought it couldn't get any better..

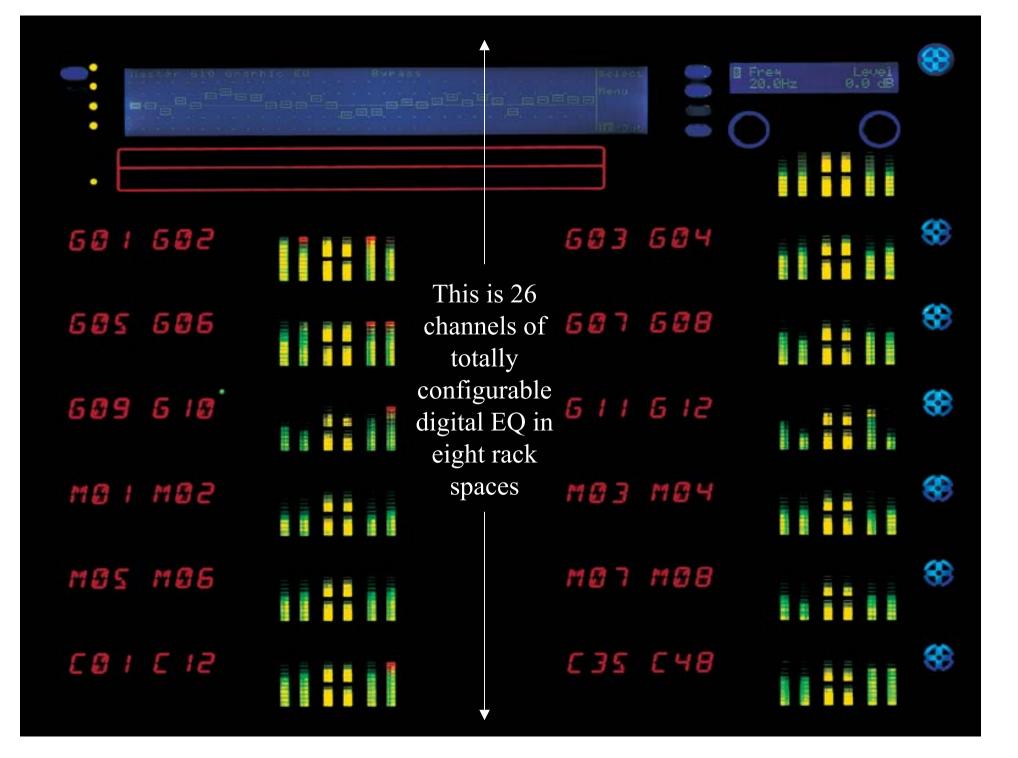


# DN9344 RELINE Slave Unit

# DN9344 REINS Slave Unit

- Stereo linkable for IEM and other applications
- Memory recall by contact closures on rear
- © Comms via RS-485 using standard XLR microphone leads
- Integral replaceable scribble strips
- @ 'Me' LED to show channel currently selected
- Maximise usefulness of console linking facility





## Thank you for visiting...

