



## RELEASE NOTES

### WaveSculptor Motor Controllers

TRI74.049 ver 2  
18 April 2012

#### **1 CURRENT RELEASE – 18<sup>TH</sup> APRIL 2012**

##### **Released:**

- WS22 and WS200 firmware images v1.08
- wsConfig 1.11
- triFwLoader 1.04
- User's Manual v4
- Config software users manual v3

##### **Additions:**

- WS configuration transfers now utilise an end-to-end stream protocol in order to increase transfer reliability over Ethernet and CAN
- Improved induction motor control, particularly in the overspeed region
- Further cleaned up User Interface for Firmware Loader utility
- Clarified motor setup procedures and error descriptions in software user's manual
- Improved noise immunity and response rate when using a resolver for motor position feedback

##### **Fixes:**

- Improved motor interface serial communications reliability in WS

##### **Notes:**

- The new 1.08 WS firmware requires the updated Windows software 1.11 which in turn requires CAN-Ethernet bridge firmware v1.04 or later
- A full update of all Windows programs and device firmware is highly recommended

#### **2 RELEASE – 8<sup>TH</sup> OCTOBER 2011**

##### **Released:**

- WS22 and WS200 firmware images v1.07
- wsConfig 1.10
- triFwLoader 1.03

##### **Additions:**

- All Windows executables are digitally signed
- Improved handling of noisy/glitchy hall signal inputs, which may previously have triggered HALL or SWOC errors
- Improved handling of noisy Sin/Cos resolver position data
- Improved calibration accuracy on later production controllers (S/N 6900+)
- User Interface change regarding config upload/download



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- Improved reliability of config upload/download
- Config no longer downloads at wsConfig startup, only when required
- Added ability to load Factory Default files without having to read existing config, which may be corrupted
- Cleaned up User Interface for Firmware Loader utility

#### **Fixes:**

- Set active motor CAN packet ("ACTMOT") no longer corrupts config

#### **Notes:**

- Windows software requires CanBridgeConfig v1.06 or later
- Also suggest upgrading to CAN-Ethernet bridge firmware v1.03 or later