

OVATION

KAMAN

FEATURES AND BENEFITS OF THE 4 MAJOR COMPONENTS

1. BOWL

- A. The semi-parabolic fiberglass (lyrachord) bowl with no corners and back braces needed for structural support produces a clean, distinct uninterrupted sound throughout the range of the instrument. The sound is actually reflected, much like an amphitheatre. Wood actually absorbs sound.
- B. The fiberglass bowl is more durable than wood, therefore, is less susceptible to dings and scratches.
- C. The fiberglass bowl is impervious to temperature and humidity, and therefore will not be affected by extreme climatic changes which can wreck havoc on all wood guitars.
- D. Fiberglass is easier to control the thickness than wood which makes it easier to match the top to the bowl for better tonal qualities.
- E. The bowls are available in either the traditional deep bowl, for that deep, rich, clean sound or super shallow bowl configuration, which feels like a solid body, but gives you that great acoustic sound.

2. TOP

- A. Ovation's solid spruce tops are graded in 3 different categories (A, AA, AAA) based primarily on the flexibility and grain structure of the wood.
- B. Different types of brace patterns were developed by Ovation to deliver totally different sound characteristics so a player could choose a model that best fits his style.
- C. The Ovation walnut bridge system was designed using no string pins. No pins mean no chance of string slippage, accidental cracked tops, lost pins, or the hassle of having to pop the pin to replace a string. String changing is quick and easy. The bridge tapers rapidly and evenly for maximum string vibration transmittance to

the top. Walnut is lighter than ebony or rosewood, and therefore doesn't dampen the top as much as other woods.

- D. Ovation uses a raised rosette instead of a pickguard to prevent dampening of the top.

3. NECK

- A. Ovation mahogany necks are available in different configurations. The 1 piece with heel block, 2 piece, and 5 piece which gives the player a choice that feels the best to him.
- B. All have reversible truss rods which eliminates the weakness in the peghead region associated with traditional truss rods.
- C. Most have Ovation's exclusive Kaman Bar System, which was designed for maximum stiffness at the lowest possible weight.
- D. The Kaman Bar, an aluminum channel, is attached to the fiberglass bowl with 2 steel bolts which puts the string tension on man-made products and allows Ovation to remove more wood from the neck for easy playing.
- E. The essential feature of the Kaman Bar is that it adds incredible strength to the neck. In terms of rigidity, it doubles the necks strength while deflection under a given load is half that of a standard neck construction. Twist resistance is greatly increased.
- F. Other neck features include Schaller Tuning Machines to keep the strings in tune.
- G. Fingerboards are available in walnut, ebony, and rosewood depending on the model chosen.
- H. The peghead angle is at a low 7 degree, (10 degree for Adamas) which further reduces risk of neck breakage.
- I. Nickel silver frets insures the player consistent intonation throughout the range of the guitar.

4. ELECTRONICS

Ovation's pickup system consist of 6 individual piezo-electric crystals (transducers), one per string, which picks up the vibration of the string and top (mechanical signal) and relays that acoustic sound as an electronic signal to the pre-amp for strengthening and tonal modification.

Ovation has 3 pre-amps available depending on the model.

1. The FET (field effects transistor) pre-amp has volume and tone control knobs and is available on the Ultra series. This was the original pre-amp that positioned Ovation as the leader in the A/E market.
2. The FET III on the Balladeer family has a built-in 3 band graphic equalizer for more control over the sound.
3. The OP24 on the Legends, Elites, Collector's Series and Adamas is the most sophisticated pre-amp on an A/E guitar today. Consisting of 144 transistors and an active 3 band graphic equalizer, this unit gives the player the broadest range of tonal modification available.

CELEBRITY

The Celebrity is the lowest priced Ovation in the history of our Company.

Featuring a lyramold bowl, the Celebrity produces a clean, bright acoustic sound, and yet is durable enough for all conditions.

The spruce top with walnut "pinless bridge" and raised rosette makes this model a "Gem" for beginners and recreational players as it is easy to change the strings and maintain.

The mahogany neck with rosewood fingerboard has a reverse truss rod for easy neck adjustment. This neck was designed to accommodate all shapes and sizes of hands for easy playing. Ping tuning machines were installed to maintain accurate tuning.

The acoustic electric models have a piezo pickup underneath the saddle to pick up true acoustic sound of the strings and top.

The Celebrity's have a one year warranty to assure the player he is buying a carefully built instrument backed by Ovation.

ULTRA

The Ultra series also has the lyrachord (fiberglass) bowl for that clean un-interrupted sound that you can only get from an Ovation.

The spruce top with our K-5 brace pattern maximizes top vibration for a louder projection than the Celebrity's.

The Nyatoh (Nato-Nado) neck with reverse truss rod has a satin or gloss finish depending on the model and has the "Ovation" logo on the peghead.

Schaller, the best tuning machines, are used to maintain proper tuning.

The FET pre-amp with volume and tone on the Ultra deluxe A/E model has been the standard of the industry for many years.

This family of guitars also have a one year warranty.

ULTRA DELUXE

The Ultra Deluxe models offers a major benefit over the standard Ultra Series.

The Kaman Bar neck provides maximum neck stiffness at the lowest possible weight.

The Ultra Deluxe is available in both deep bowl and supershallow models and have rosewood fingerboards, gold deluxe machine heads and FET preamps.

The Ultra Deluxe have a one year warranty.

PINNACLE

The Pinnacle series guitars are available in both a deep bowl and a supershallow cutaway model.

The Pinnacle features a solid North American "A" grade spruce top, available in a variety of special finishes. The one piece Nyatoh (Nato-Nado) neck has a reverse truss rod for easy adjustment and a bound, ebony fingerboard exhibits just some of Ovation's quality features.

A piezo electric pickup and FET 3 preamp with 3-band E.Q. allows the player precise tonal adjustments.

The Pinnacle guitar has a five year warranty.

BALLADEER

The Balladeer bowls are available in the deep bowl for that deep, rich Ovation sound, or super shallow bowl for the player that likes that solid body feel, but the sound of an acoustic.

The top is our "A" grade solid spruce with K-5 brace pattern. The thickness is 140" in the upper bout thinning to 100" in the lower bout for maximum top vibration and sound projection.

The neck is two piece mahogany with Kaman Bar. The Kaman Bar, an aluminum channel with 1/4" alloy steel truss rod, makes this neck assembly the strongest on any guitar today. (See Kaman Bar notes for more details).

The fingerboard is ebony, a very dense wood, for repelling finger moisture and preventing creakage.

The FET III electronics available on the Custom Balladeer and Super Shallow Bowl feature a 3 band graphic equalizer for more precise tonal adjustments, and a battery check light for testing the battery.

The Balladeer family has a limited lifetime warranty that assure the player of the very best of quality.

LEGEND

The Legends are also available in deep or super shallow bowl configurations, which makes this an ideal instrument for the traveling musician, due to this durability of the fiberglass.

The Legend and Custom Legend has "AA" and "AAA" solid spruce tops, respectively, both incorporate Ovation's "A Brace Pattern" which runs almost totally with the grain and travels the whole length of the top to increase bass response.

The neck consists of three pieces of mahogany and two pieces of maple resulting in five plys of additional strength to go with the Kaman Bar. The Schaller tuning machines on the Legend are 24 carat gold to enhance the overall value and appearance. The Custom Legend has 24 carat machines with pearloid buttons to better match the 29 abalone inlays in the ebony fingerboard and abalone in the body.

The Legend family would not be complete without Ovation's OP24 pre-amp and pickup system. This system has an on-board active graphic equalizer that gives the player the greatest range of tonal modification available on an acoustic electric guitar today. The Legends have a limited lifetime warranty.

ELITES

The Elite family is available in four models in either a deep or super shallow bowl.

They have our best solid spruce tops (AA) with Quintad II brace pattern and epaulet sound hole configuration. This Adamas technology in an all wood top allows for maximum vibration of the soundboard and projection of a deep warm sound through the epaulets. The multi-colored woods in the epaulets consist of teak, walnut, maple, and padauk.

The five piece neck with Kaman Bar is the same as the Legend guitar, and also has 24 carat gold Schaller tuning machines. The fingerboard is rosewood and extends 2 extra frets under the E and B strings. Maple inlays further enhance the overall beauty of this top of the line guitar.

The Elites also have the OP24 preamp which is light years ahead of the competition. Another great feature of the OP24 is the well thought out design of having a raised concentric volume knob and recessed sliders on the E.Q. A player can hold a chord with his left hand and turn up his volume with his right without accidentally changing his overall tone.

As in all of the domestic Ovation's, the Elites carry a limited lifetime warranty.

ADAMAS

(Adamas - A latin word meaning "diamond in the native form of carbon")

The Adamas bowl follows the standards set by our Ovation Roundbacks, except that it is 1/4" deeper due to the way the outer ring secures the top to the bowl.

A guitar top should be strong, yet light and resonant. It's largely the flexibility of the top that determines the sound output and quality. A solid spruce top is limited due to the thickness required to keep it from warping or cracking. The Adamas top solves this problem with the fibronic soundboard.

The Adamas top is really a composite structure built with two .005" carbon-graphite outer layers with a .035" birch veneer sandwiched in the center, all bonded together at 250 degrees F. While the fibers of the carbon run in a longitudinal direction parallel with the neck of the guitar, the birch veneer grain is set at a 60 degree angle to the carbon. This yields an extremely rigid, yet uniquely thin membrane, one-third the thickness of a typical spruce top.

Eliminating the single large soundhole allowed us to install the Quintad II brace pattern. Longitudinal braces (no x braces) running with the grain of the carbon graphite help us to achieve the design objective of no more than ± 3 DB change over the entire playing range of the guitar.

The strength of the top and the sound dramatically improved with the new 22 soundhole configuration on each side of the brace pattern in the upper bout. This re-location is indispensable to the distribution of the tension from string loads on such a thin soundboard.

The pattern and size of the holes were developed to minimize feedback when playing electrically at high levels.

The Adamas has a two piece walnut neck with Kaman Bar (Note: The Adamas II has Ovation's standard 5 piece neck), and 24 carat gold Schaller tuning machines. The fretboard is walnut with maple inlays. This resin impregnation process makes the wood 45% more dense and strong than the native wood alone. It is also virtually impervious to heat, moisture, acid from sweat, and other such elements.

Adamas guitars have an OP24 preamp.

There is no doubt that the Adamas represents our finest work and of course carries a limited lifetime warranty.

OP24 PRE-AMP

FEATURES

1. Six chips containing 24 transistors each, as opposed to just one or two transistors in traditional pre-amp systems.
2. 3 band active equalization with range of \pm decibels from center (flat) response.
3. Careful selection of the centering frequencies in each of the three bandwidths, chosen to complement the frequency spectrum of the Ovation guitar.
4. Built in battery check with LED indicator light.
5. Carefully positioned volume control.
6. Graphic equalization.
7. Center "click" on each slider.

BENEFITS

1. Quicker, more efficient and more reliable than traditional pre-amp systems.
2. An extraordinary range of tonal variety not previously available from A/E guitars.
3. A much wider range of possibilities from a 3 band on-board graphic E.Q. That is available from an off board five or seven band E.Q. System.
4. The confidence that your battery is OK before a performance. The LED also assists in setting volume on a dark stage.
5. Ease of adjustment with the little finger of the right hand allows you to hold down your chord with left hand while making an adjustment.
6. Gives you a visual picture of the tonal response you are creating.
7. Allows you to feel "zero" or flat without looking.

First Digit Quality	2nd Digit Electronics	3rd Digit Bowl Description	4th Digit Family	5th Digit Color
1 - 1st	1 - Acoustic	1 - Deep Bowl	1 - Balladeer	1 - Sunburst
T - AAA	6 - Adamas A/E	5 - 12 String	2 - Cust. Balladeer	4 - Natural
S - 2nd	7 - FET 3 or OP24 (Deepbowl)	6 - Cutaway	3 - Classic	5 - Black
L - Left-Handed	8 - FET 3 or OP24 (Super shallow)		7 - Legend	6 - White
3 -	5 - 12 strg.imported		8 - Elite	B - Bamboo
4 - imports	9 - Collector's		9 - Custom Legend	9 - Brownburst
	3 - Imported			8 - Blue